The
India Weather Review
1905 to 1908 and 1912; 1914;
1916 and 1920

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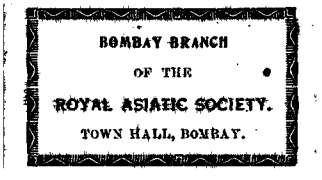

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GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT.

THE

INDIA WEATHER REVIEW

FOR THE YEAR

1905.

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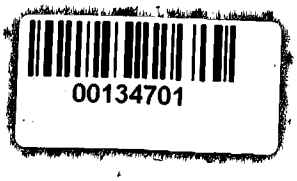
UNDER THE DIRECTION OF

GILBERT T. WALKER, M.A., Sc.D., F.R.S.,

DIRECTOR GENERAL OF OBSERVATORIES.



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ANNUAL SUMMARY, 1905.

INTRODUCTION.

The present annual summary completes the discussion of the meteorology of India for the year 1905.

It should be noted that in the monthly reviews an attempt is made to present the facts and data from two different points of view. Meteorological data in India are chiefly utilized for the following purposes :—

1st.—In the discussion of the prevalence and spread of diseases.

2nd.—In connection with agricultural questions, and especially with the progress and character of the crops as influenced by weather conditions.

India has hence been divided into two groups of divisions from what may be termed the medical and agricultural standpoints. For the comparison of medical and meteorological statistics, India is arranged into the following provinces, which are believed to be fairly homogeneous so far as the conditions of the prevalence of the more common diseases are concerned :—

(1) Burma Coast and Bay Islands.
(2) Burma Inland.
(3) Assam.
(4) Bengal and Orissa.
(5) Gangetic Plain and Chota Nagpur.
(6) Upper Sub-Himalayas, including the west sub-montane districts of the United Province and the sub-montane districts of the Punjab and the meteorological divisions of the South-East, South and Central Punjab.
(7) Indus Valley and North-West Rajputana.
(8) East Rajputana, Central India, and Gujarat.
(9) Deccan.
(10) West Coast.
(11) South India.

The data for each of these divisions are given in Table I in large figures, and the portion of each monthly review, entitled "Summary of the chief features of the weather in India during the month," is intended to give a sketch of the broader and more important features of the weather in India for the use of those who study the relations between the prevalence of diseases and the weather conditions prevailing at the time in India.

According to the second method of arrangement, India is divided, from the agricultural standpoint, into 57 meteorological districts or divisions each of which is fairly homogeneous so far as the distribution of rainfall, the general character of the crops, and the conditions of their growth are concerned. The following are the two series of divisions arranged under the respective political areas or provinces to which they belong :—

Political Division or Province.	Meteorological Division.	Meteorological Province.
BURMA	Tenasserim and Bay Islands.	Burma Coast and Bay Islands.
	Lower Burma	
	Arakan	
	Central Burma	Burma Inland.
	Upper Burma	
ASSAM	Assam (Surma)	Assam.
	„ (Brahmaputra)	
BENGAL	East Bengal	Bengal and Orissa.
	Deltaic Bengal	
	Central Bengal	
	North Bengal	
	Orissa	
UNITED PROVINCES OF AGRA AND OUDH.	Chota Nagpur	Gangetic Plain and Chota Nagpur.
	South Bihar	
	North Bihar	
	United Provinces, East	
	United Provinces, Central	
	South Oudh	
	North Oudh	
	United Provinces, East Sub-montane.	Upper Sub-Himalayas.
	United Provinces, West Sub-montane.	
PUNJAB AND NORTH-WEST FRONTIER PROVINCE.	South-East Punjab	
	South Punjab	
	Central Punjab	
	Punjab Sub-montane	
	N.-W. F. Province	
	West Punjab	
BOMBAY NORTH	Sind	Indus Valley and North-West Rajputana.
RAJPUTANA AND CENTRAL INDIA.	West Rajputana	
	Central India, East	East Rajputana, Central India and Gujarat.
	Rajputana, East, Central India, West.	
BOMBAY, NORTH	Kathiawar and Cutch	
	Gujarat	
UNITED PROVINCES	United Provinces, West	

Political Division or Province.	Meteorological Division.	Meteorological Province.
BOMBAY	Bombay Deccan	Deccan.
	Khandesh	
CENTRAL PROVINCES	Berar	
	Central Provinces, West	
	" " Central	
	" " East	
HYDERABAD OR THE NIZAM'S DOMINIONS.	Hyderabad, North	
	" South	
BOMBAY	Konkan	West Coast.
	Malabar	
MADRAS	Madras, South	South India.
	" " Central	
	" East Coast, South	
	" Central	
	" East Coast, Central	
	" East Coast, North	
COORG AND MYSORE	Coorg	
	Mysore	
HILL DISTRICTS	Assam Hills	Hills.
	Bengal Hills	
	United Provinces Hills	
	Punjab and North-West Frontier Province Hills.	
	Baluchistan Hills	

The double grouping is shown in Plate I at the end of this summary.

The data of Table I in the monthly reviews and in the present annual part are obtained, with a few exceptions, from the observations telegraphed daily to Simla for publication in the Daily Weather Report. In the case of thermometric observations, they are telegraphed to the nearest half degree. Hence the maximum and minimum temperature data of the second class observatories derived from these telegraphic reports and given in Table I occasionally differ to some slight extent from the means of the more exact data (recorded to the tenth of a degree) tabulated in the observation forms sent to the Calcutta Office, and used in the calculation of the mean temperature data in Table II. There is also another reason why the mean maxima and minima data in Tables I and II differ to a slight extent. In Table I the daily or 24-hour period is assumed to end at 8 hrs. and in Table II at midnight (except for rainfall, the period of which ends at 8 hrs.), and hence the maximum temperature in Table I for any month of thirty-one days at any station gives the mean for thirty-one periods of 24 hours ending at 8 hrs. of the 31st, and in Table II for the same number of 24-hour periods ending at midnight on the 31st, and hence virtually of a monthly period one day in advance of the former. Similarly for months of 28, 29 or 30 days. These remarks will explain some of the slight discrepancies which may be found between the maxima and minima temperature mean data in Tables I and II, and hence also in the monthly mean departure data given in these tables in the monthly reviews and annual summary.

The methods of exposure of the instruments at observatories in India, and of the reduction of the observations and the caculation of mean data, have been fully stated and explained in the Annual Reports on the Meteorology of India, and need not be repeated. The reader is referred more especially to the Annual Report of the year 1885 and to the "Instructions to observers of the Indian Meteorological Department" for full information on this subject.

Solar, magnetic and seismic activity.

Report from Kodaikanal Observatory.

Sunspots.—The year was one of increasing solar activity as shown both by the number and by the great size of the spot groups, and the total area of spots during 1905 was probably nearly double that in 1904.

The following table shows the monthly numbers of new groups observed in the period 1902—1905:—

Year.	New groups observed.												
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1902	4	2	3	2	3	2	2	5	5	5	4	4	41
1903	6	7	5	13	11	10	10	18	9	12	17	25	143
1904	13	11	22	19	26	12	15	24	17	21	29	30	239
1905	24	26	20	27	27	17	32	28	27	16	29	22	295

During the first half of the year, with the exception of May, the spots were nearly equally divided between the two hemispheres, but during the second half of the year, with the exception of November, the number of spots in the northern hemisphere considerably exceeded the number in the southern. In May 20 out of 27 and in August 22 out of 28 new groups were in the northern hemisphere. For the whole year there were 169 new groups in the northern and 126 in the southern hemisphere. The distribution of the spots in latitude was fairly normal. In October the spot activity was practically confined to a belt lying between 17° north and 19° south, and towards the close of the year the distribution was that which is usually associated with a sunspot maximum.

The most interesting feature of the sun's activity during the year was the series of great groups, easily visible to the naked eye, which succeeded each other at comparatively short intervals from January to November. The first of these was seen as a quite insignificant group early in January, but on its return on January 29th it had developed enormously and was now a group of the largest size. On February 4th its greatest length was about 110,000 miles and its greatest breadth 59,000 miles. The umbra of the chief spot measured about 21,000 by 13,000 miles, while the flocculi associated with it covered some 16,000 million square miles. Great eruptions of hot gases were observed in the umbra and lines due to hydrogen, helium, calcium, sodium, iron, and nickel were brightly reversed. Displacements of hydrogen and helium lines were frequently observed. These observations showed that it was not only a very large, but also a very active spot and, as was to be expected in such a case, large magnetic disturbances were recorded near the time of its crossing the central meridian. It was seen during four rotations and lasted for a little over three months.

Other great spots of the year were those which appeared first on July 10th, October 14th, and October 22nd. In November there appeared a number of groups following each other so closely that on the 12th no less than 9 groups were visible at once, arranged in two rows roughly parallel to the equator. Each group consisted of a long train of spots, and in the northern hemisphere the spectroheliograms showed a practically continuous band of very bright flocculi.

Prominences.—The prominences observed in 1905 were largely in excess of those observed in 1904. The mean height was also considerably greater. The chief features are shown in the following table:—

Year.	Days of observation.	Total number observed.	Mean daily frequency.		Mean height.	Mean heliographic latitude.	
			North.	South.		North.	South.
1904	241	2708	5·4	5·8	26·5	35·4	38·3
1905	305	4757	7·8	7·8	31·4	37·3	38·3

There are two well marked regions of maximum frequency in each hemisphere, and these change somewhat in position during the sunspot cycle. They are shown for the years 1904 and 1905 in the following table:—

Year.	Regions of maximum frequency.			
	North.		South.	
1904	20°—30°	50°—60°	30°—40°	50°—60°
1905	20—30	60—70	20—30	60—70

It will be noticed that while in both hemispheres the maximum in higher latitudes moved polewards the maximum in lower latitudes remained constant in the northern hemisphere and moved towards the equator in the southern. The tallest prominence recorded during the year was one photographed on February 20th. When first photographed at 8 h. 36 m. it had a height of 95,000 miles and when last photographed at 10 h. 14 m. it had reached a height of at least 162,000 miles and the top was beyond the limits covered by the plate. Metallic prominences and prominences showing motion in the line of sight were, as is natural towards the epoch of maximum, numerous.

C. Michie Smith,

Director, Kodaikanal and Madras Observatories.

The Colaba Magnetic Record, 1905.

The mean absolute values for the year of the different magnetic elements corrected for 24 hours of tabulation are as follow :—

Declination	0° 14'·0 East.
Horizontal Force	0·37382 C. G. S. unit.
Vertical Force	0·15084
Dip	21° 58'·5

During the year there were 6 days as against 3 in 1904 on which the disturbances recorded were classed as great, on the 3rd February, 2nd March, 1st April, 12th November, 15th November, and 16th November. There were 20 as against 30 days classed as moderate and 193 as against 175 days classed as small disturbance. There were 146 calm days as against 158 of 1904.

The following is a list of quiet days selected for the purposes of the Magnetic Survey :—

Month.	Selected quiet days.				
January	2	8	13	27	30
February	8	9	13	19	22
March	9	11	13	18	26
April	8	11	14	18	24
May	5	11	15	21	26
June	2	13	18	19	25
July	4	11	15	21	26
August	1	10	19	21	26
September	2	7	16	20	29
October	3	10	12	23	30
November	1	8	11	26	30
December	1	8	17	22	27

For the selection of quiet days at Colaba besides the two points usually considered, (1) typically undisturbed days, (2) the distribution of the days so selected as to have their mean coincident with the middle of the month,—the value of the daily mean is also, in doubtful cases, taken into account as a high value usually indicates quieter conditions.

Table I gives the corrected monthly absolute values of the several magnetic elements as also the summed ranges of the Horizontal Force. In Table II will be found a list of seismic disturbances and in Table III movements in the magnetograph traces suspected to be due to seismic causes indicating a sudden strain :—

TABLE I.—*Monthly values of magnetic elements.*

Months, 1905.	Absolute values of				Horizontal Force summed ranges in C. G. S. unit.
	Horizontal Force in C. G. S. unit.	Vertical Force in C. G. S. unit.	Dip.	Easterly declination.	
			° ′	° ′ ″	
January	·37382	·15033	21 54·5	0 14 17	·00206
February	·37379	·15056	21 56·4	0 14 9	·00282
March	·37385	·15056	21 56·2	0 14 6	·00392
April	·37374	·15036	21 54·9	0 14 24	·00349
May	·37385	·15060	21 56·5	0 13 58	·00318
June	·37388	·15072	21 57·3	0 14 27	·00370
July	·37388	·15113	22 0·6	0 13 40	·00337
August	·37382	·15108	22 0·4	0 13 59	·00311
September	·37380	·15118	22 1·2	0 13 56	·00258
October	·37378	·15113	22 0·9	0 13 46	·00318
November	·37373	·15111	22 0·9	0 13 32	·00369
December	·37394	·15130	22 1·7	0 13 29	·00241

TABLE II.—*Disturbances recorded by Milne's Seismograph.*

Date 1905.	P. T. Commence.	L. W. Commence.	Max.	End.	Max. Amplitude.	Duration.	Remarks.
	H. M.	H. M.	H. M.	H. M.	M.M.	H. M.	
January 22	2 52·9	...	3 21·2	4 18·7	5·0	1 25·8	
February 2	21 19·1	...	21 24·6	21 32·5	0·6	0 13·4	
„ 4	6 35·3	...	6 46·3	6 52·8	0·4	0 17·5	
„ 14	9 7·3	...	9 40·7	11 36·0	8·6	2 28·7	
„ 15	11 39·6	...	11 59·2	13 10·0	3·4	1 30·4	
„	5 4·3	...	5 48·7	6 18·8	1·4	1 14·5	
„ 27	17 54·7	...	18 41·8	19 22·6	0·7	1 27·9	
March 4-5	23 39·8	...	0 18·1	0 57·9	0·9	1 18·1	
„ 19	0 13·1	...	1 5·1	2 40·2	3·1	2 27·1	
„ 22	3 51·9	4 21·9	4 34·6	6 37·1	3·9	2 45·2	

TABLE II.—*Disturbances recorded by Milne's Seismograph*—concld.

Date 1905.	P. T. Commence.	L. W. Commence.	Max.	End.	Max. Amplitude.	Duration.	REMARKS.
	H. M.	H. M.	H. M.	H. M.	M.M.	H. M.	
April 4	0 52·9	0 56·3	...*	5 12·5	...*	4 19·6	*Traces overlapped.
„ 7	4 25·0	...	4 38·0	4 48·2	0·6	0 23·2	
May 23	7 12·7	...	7 18·8	7 51·4	0·6	0 38·7	
„ 31	18 38·0	...	18 55·8	20 10·5	0·6	1 32·5	
June 2	5 56·9	...	6 20·1	6 29·8	0·6	0 32·9	
„ 14	12 29·4	...	12 45·3	13 20·7	0·9	0 51·3	
July 2	3 52·7	...	3 53·4	4 3·0	0·5	0 10·3	
„ 6	16 31·2	...	17 4·4	18 56·6	2·4	2 25·4	
„ 9	9 47·0	...	...*	14 7·7	...*	4 20·7	*Traces overlapped.
„ 11	8 59·6	...	9 2·4	9 55·8	2·1	0 56·2	
„ 14	9 37·8	...	9 52·8	10 29·4	0·7	0 51·6	
„ 14	22 21·5	...	22 24·3	22 59·3	0·8	0 37·8	
„ 16	18 59·5	...	19 6·1	19 20·9	0·5	0 21·4	
„ 23	2 53·5	...	...*	9 45·9	...*	6 52·4	*Traces overlapped.
September 8	1 52·5	...	2 28·1	3 22·3	1·0	1 29·8	
„ 14	20 4·7	...	20 29·0	21 7·2	1·5	1 2·5	
„ 15	6 14·7	6 48·6	6 53·5	9 34·1	12·6	3 19·4	
„ 26	1 30·1	...	1 35·8	2 34·7	2·1	1 4·6	
„ 29	12 3·0	...	12 35·6	13 23·2	1·0	1 20·2	
October 19	16 33·6	...	16 37·0	17 3·0	1·2	0 29·4	
„ 21	11 23·4	...	11 27·8	11 36·0	0·5	0 12·6	
„ 22	9 2·5	...	9 10·2	9 42·2	0·6	0 39·7	
November 3	19 16·6	...	19 29·0	19 32·1	0·3	0 15·5	
„ 8	22 18·2	...	22 26·9	23 42·7	1·7	1 24·5	
„ 9	16 22·7	...	16 24·7	16 32·3	1·6	0 9·6	
December 4	7 17·7	...	7 27·8	8 9·2	0·9	0 51·5	
„ 10	13 21·6	...	13 39·2	14 38·8	1·5	1 17·2	
„ 10	18 19·3	...	18 31·3	19 25·8	0·9	1 6·5	

TABLE III.—*List of suspected movements in the magnetograph traces.*

DATE.	Hour.	Duration in hours.	DATE.	Hour.	Duration in hours.	DATE.	Hour.	Duration in hours.
January 4	0	4	April 1	1	3	November 30	19	3
„ 14	8	4	June 3	20	4	December 15	14	2
February 10	21	3	„ 21	2	3	„ 15	22	2
„ 12	17	3	July 23	9	2			
„ 22	20	5	August 16	6	6			

It has been noted in the examination of the Colaba Magnetograph traces in connection with seismic disturbances that the latter appear to occur more usually about days of comparatively high daily means, *i.e.*, quieter days or days with increasing (northerly) disturbances, when apparently a strain is indicated, under which the usual amplitudes of the diurnal inequality of Horizontal Force also appear to be effectively reduced.

N. A. F. MOOS, *Director*,
Government Observatory, Bombay.

Solar Radiation.

It was stated in the Annual Report of 1889 that the observations of solar thermometers are liable to large and irregular changes which make them unfit for accurate observation in India, except perhaps at the first class observatories. The instruments were accordingly withdrawn from use, except at the following stations :—

Srinagar.	Jodhpur.	Bombay.
Simla.	Allahabad.	Leh.
Lahore.	Calcutta (Alipore).	Aden.

Observations of the solar thermometers were made during the year 1905 at all these stations with the exception of Aden. The monthly averages of past years and the departures from them of the data of 1905 are given in Tables IV and V and the mean comparative data for the past sixteen years in Table VI.

TABLE IV.—*Average excess of mean monthly and annual maximum insolation over the corresponding maximum shade temperatures.*

Station.	Years of observations used.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	1902-05	35·8	43·3	47·5	52·2	52·3	54·0	54·6	50·7	44·5	43·8	40·1	32·9	46·0
Simla	1890-05	60·6	65·1	67·1	69·1	68·2	63·0	49·3	49·1	60·1	69·9	67·4	63·4	62·7
Lahore	Do.	48·1	53·5	55·9	56·9	53·0	50·1	51·9	54·7	53·2	52·1	49·9	47·1	52·2
Jodhpur	1897-05.	52·7	55·4	56·6	56·7	54·5	53·1	56·3	56·4	55·8	53·0	51·5	50·4	54·4
Allahabad	1890-05.	57·6	58·2	58·4	57·5	56·6	56·5	56·7	56·8	59·0	55·9	56·7	57·2	57·3
Calcutta (Alipore)	Do.	51·4	52·8	53·4	53·8	54·1	52·4	53·4	55·0	55·9	54·7	52·4	51·7	53·4
Bombay	Do.	50·6	51·2	50·6	51·0	50·9	46·5	42·6	46·0	48·9	50·1	50·1	49·4	48·9
Leh	Do.	66·1	74·3	72·7	72·3	68·6	66·6	64·8	65·2	66·0	66·6	65·4	63·2	67·7
Aden	1890-02.	51·5	52·6	51·8	48·0	45·6	41·1	42·0	44·9	49·6	52·4	50·6	50·2	48·4

TABLE V.—*Departures from the averages of Table IV of mean monthly and annual excess of sun over shade temperatures in 1905.*

Station.	Number of years that the instrument, the observations of which are utilised for this comparison has been in use.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	1*	—3·7	—0·7	—4·4	—1·6	—1·7	—0·7	—3·0	—2·5	—0·9	—2·0	—8·0	—7·6	—3·1
Simla	1†	—5·9	+3·1	—15·7	0	—0·5	+3·4	+4·5	+13·8	+6·6	+8·0	+10·4	+1·9	+2·5
Lahore	20	—6·5	—4·6	—5·5	—3·0	—3·9	—4·4	—5·8	—11·1	—4·0	—3·4	—3·8	—4·0	—5·0
Jodhpur	8	—1·4	—0·6	+1·9	+0·5	0	—2·6	—3·4	—3·5	—1·1	—0·5	+0·2	+0·1	—0·7
Allahabad	3	+0·7	+3·0	+1·2	+0·3	—0·3	—2·6	+2·2	—3·9	+1·4	+1·2	+0·9	+0·7	+0·4
Calcutta (Alipore)	1‡	—0·3	—0·5	—0·2	+0·3	+1·1	—0·8	—0·7	—1·5	—1·3	—1·7	+0·0	+0·5	—0·4
Bombay	20	—0·1	+1·2	0	—0·6	—0·2	+2·7	—1·2	+2·1	—0·8	—0·4	—3·2	+1·2	+0·1
Leh	10	—5·1	—1·4	—6·6	+0·3	—5·1	—2·3	—3·5	0	—3·5	—0·1	+0·7	—1·1	—2·3

TABLE VI.—*Departures from normal of the annual mean excess of sun over shade temperature for each year of the period 1890—1905.*

Station.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.
	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	?	?	?	?	?	?	?	?	?	?	?	?	—1·8	—0·4	+2·1	—3·1
Simla	+2·6	+2·5	+2·2	+1·6	+0·2	+1·2	+0·2	—1·1	+1·1	+2·7	—3·1	—1·2	—3·0	—5·1	—0·9	+2·5
Lahore	+3·6	+2·9	+2·0	+1·5	+0·7	+0·6	+0·4	+0·6	+0·2	—1·5	—1·1	—2·6	—2·9	—2·6	—3·0	—5·0
Jodhpur	?	?	?	?	?	?	?	+1·7	+0·5	—0·9	—0·6	—0·5	—0·3	—0·3	—0·5	—0·7
Allahabad	+0·9	+0·9	—0·3	—0·1	+0·3	—0·2	+0·6	+1·1	—0·4	—0·7	—0·6	—0·4	—0·7	—0·1	+1·6	+0·4
Calcutta (Alipore)	+1·6	+1·5	+1·5	+0·9	+0·9	+1·8	+0·3	—1·3	+0·8	—2·1	—3·2	—1·6	—2·8	—0·2	—0·6	—0·4
Bombay	+1·5	0	+0·4	+1·0	+0·4	+0·7	+1·0	+1·1	—0·4	—1·1	—1·0	—0·7	—0·9	—1·8	+0·1	+0·1
Leh	?	+5·2	+3·4	+0·4	+1·3	+0·5	—0·2	+0·4	—2·3	—0·2	—2·1	—0·2	—1·6	—2·4	—3·4	—2·3
Aden	+4·0	+4·2	+3·7	+0·9	+0·2	+0·5	—2·5	—4·7	—4·5	—0·9	—2·3	+0·7	?	?	?	?

* New instrument from 18th May 1905. † New instrument from 24th May 1905 ‡ New instrument from 27th April 1905.

Nocturnal Radiation.

It was stated in the Annual Report of 1890 that the observations of the terrestrial radiation thermometers in India are nearly as unsatisfactory as those of the solar radiation thermometers. Observations of these instruments were recorded during the year 1905 at the following stations:—

Srinagar.	Jodhpur.	Bombay.
Simla.	Allahabad.	Leh.
Lahore.	Calcutta (Alipore).	Aden.

The following table, TABLE VII, gives the average data of past years for the above stations; TABLE VIII, the departure from the normal; and TABLE IX, the mean annual departure data for the past sixteen years.

TABLE VII.—*Average depression of mean monthly and annual nocturnal radiation temperatures below mean minimum shade temperatures.*

STATION.	Number of years observations used.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
		°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	7—12	7·4	7·9	8·7	7·3	8·0	7·7	7·9	7·0	11·7	11·1	11·6	11·6	9·0
Simla	15	4·5	3·5	3·6	5·8	4·1	3·6	2·9	2·1	3·4	4·4	4·5	4·4	3·9
Lahore	28—29	9·3	9·2	8·5	9·1	8·6	6·1	3·8	4·2	6·3	9·5	10·4	9·7	7·9
Jodhpur	8—10	9·1	9·2	8·8	8·0	5·0	2·2	1·7	1·9	4·3	9·7	10·4	9·7	6·7
Allahabad	28—29	10·9	11·5	12·6	12·3	8·9	5·0	3·1	2·6	4·0	9·0	12·2	12·1	8·7
Calcutta (Alipore)	28—29	7·8	7·3	6·0	4·6	3·1	2·1	1·8	1·9	2·5	4·5	6·8	8·3	4·7
Bombay	30	9·9	9·3	8·2	6·6	4·7	2·8	2·1	2·4	3·1	6·4	9·6	10·5	6·3
Leh	21—23	10·4	9·3	10·7	11·4	11·3	11·6	10·0	10·8	11·9	15·2	15·2	12·2	11·7
Aden	21—24	3·1	2·7	2·9	3·1	3·5	3·4	2·1	2·0	3·3	3·7	4·3	3·9	3·2

TABLE VIII.—*Departures from the averages of Table VII of mean monthly and annual depression of nocturnal radiation temperatures in 1905.*

STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	−3·7	−4·3	−4·0	−2·3	−2·2	+1·9	+4·3	+5·3	−1·0	+4·1	+4·1	−0·5	0
Simla	−1·5	+0·3	−1·3	−2·5	−1·8	−0·5	−0·9	+0·3	−0·9	−0·8	−1·5	−2·4	−1·1
Lahore	−1·1	−0·1	−0·5	+0·5	+0·9	+1·2	+0·3	+1·0	+2·0	+2·6	+2·7	+3·4	+1·1
Jodhpur	−2·7	−1·7	−2·4	−0·1	−0·5	−1·1	−0·6	−0·2	+0·3	−0·5	−0·6	−1·2	−0·9
Allahabad	+0·6	+0·4	−1·3	+1·8	−1·2	+2·1	−0·1	−0·4	+0·2	+2·4	+1·3	+1·9	+0·6
Calcutta (Alipore)	−3·3	−3·3	−3·2	−1·6	−0·9	+0·1	−0·5	−0·2	−0·5	−1·2	−1·4	−2·7	−1·6
Bombay	−1·8	−1·3	−1·2	+0·4	−0·4	+0·3	−0·1	−0·3	+0·1	−0·7	−2·0	−0·2	−0·6
Leh	?	+0·1	−0·2	+0·9	+2·2	+0·7	+1·6	+1·0	−2·1	+0·2	+1·2	−3·5	?
Aden	−4·3	?	?	−2·0	+0·5	−0·9	−1·3	−2·4	−2·6	−2·8	−3·9	−1·5	?

TABLE IX.—*Departures from normal of the mean annual depression of nocturnal radiation temperatures.*

STATION.	1890	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905
	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	?	?	?	?	?	?	?	?	?	?	?	?	+1·2	0	−1·4	0
Simla	+0·1	−0·1	+1·0	−0·3	+0·7	?	−0·8	+0·8	−0·8	−0·1	+0·5	−0·2	+1·3	−1·2	−0·6	−1·1
Lahore	−1·2	−1·7	−0·9	−0·7	+0·7	+1·0	−0·3	−0·2	+1·0	+2·0	+2·2	+2·0	−1·0	+0·5	+0·4	+1·1
Jodhpur	?	?	?	?	?	?	?	+0·1	0	−0·1	−0·5	−0·1	+1·1	−0·6	−1·4	−0·9
Allahabad	−0·9	−0·6	0	−1·3	−1·2	+0·2	+1·0	+0·1	+1·2	+1·6	−0·9	+0·5	−1·1	+0·6	+0·9	+0·6
Calcutta (Alipore)	−0·3	+0·1	−0·1	−0·5	−0·8	+0·1	+0·4	+0·2	+0·2	−0·2	−2·2	−1·7	+0·7	−1·7	−1·1	−1·6
Bombay	+1·4	+2·5	+0·8	−1·0	−1·8	−1·2	+0·8	−0·3	−1·0	−0·6	−0·7	−1·1	−2·1	−1·2	−0·9	−0·6
Leh	+3·1	+3·4	+2·9	+0·4	−2·3	−2·8	−2·0	−2·4	−0·1	−0·4	−2·1	+0·7	−1·3	?	−1·0	?
Aden	−0·4	−0·5	+0·1	+1·2	+1·1	−0·4	−0·8	−0·4	−0·3	−0·1	+1·9	?	−0·2	+4·4	?	?

Temperature of the ground.

Observations of the temperature of the ground were recorded during the year 1905 at six stations, Lahore, Jaipur, Dehra Dun, Allahabad, Calcutta (Alipore) and Bombay.

The thermometers used for the purpose are verified standard mercurial thermometers with attached scales of porcelain, the scale being engraved also on the tube.

At Lahore and Jaipur the surface thermometer is read four times daily, at Allahabad at 6, 14, and 22 hrs., and at Calcutta at 13 hrs. 45 mins. At Dehra Dun all the five ground thermometers are read at 15 hrs. daily, and at Bombay the two nearest to the surface are read five times a day, the deeper instruments being read once only.

The thermometers below the surface have their bulbs protected with pointed copper shoes which rest on the ground at the bottom of a wooden tube, inserted to the specified depth and projecting six inches above the surface, the upper ends being closed by a cap of metal or wood. Those at depths of three and six feet are attached to the lower end of a stout wooden bar of about half the diameter of the tube. Those at one foot have a brass ring attached to the top of the wooden frame by which they are lifted; and in all these the lower part of the frame around the bulb has been cut away, and the lower end fitted with the copper shoe above mentioned.

The average monthly data are here given at length, but a paper recently published by Mr. R. Ll. Jones (Meteorological Memoirs, Vol. XV, Pt. III, 1904) makes it clear that the whole system of measurement of under-ground temperatures is unsatisfactory: analysis on the lines developed by Lord Kelvin leads to inconsistent results. It may be that this is due to irregularities from percolation of rainfall as well as to imperfections in the mode of measurement.

Under these circumstances a table of departures from the average of past years is more likely to give correct indications than a table of absolute temperatures recorded. The number of years included in the averages in the different cases lies between 20 and 26.

TABLE X.—*Departures from normal of the mean monthly and annual temperatures of the air and of the ground in 1905.*

		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
LAHORE	Air	−3·6	−7·6	−5·8	−2·8	+3·7	+2·9	+2·0	+6·1	+0·9	+0·6	+2·6	+0·2	+0·1
	Surface	−3·2	−9·3	−7·2	−2·5	+2·4	+2·2	+0·2	+4·4	−2·6	−0·4	−1·4	−1·3	−1·6
JAIPUR	Air	−3·1	−9·2	−5·5	−4·9	+3·2	+3·6	+3·3	+6·7	+2·9	+2·7	+3·9	+0·3	+0·3
	Surface	−3·3	−9·3	−5·8	−3·2	+4·7	+5·6	+8·2	+13·0	+2·5	+2·8	+3·8	+1·3	+1·7
DEHRA DUN	Air	−3·1	−9·1	−6·1	−5·0	−0·4	+1·6	−0·1	+0·6	+0·2	+0·4	+0·8	−0·3	−1·7
	1·1 feet deep	−2·1	−5·8	−6·8	−5·1	−0·1	+2·8	+0·5	+1·2	+0·6	+0·8	+2·2	+0·4	−1·0
	3·2 „ „	−1·5	−4·6	−5·3	−4·1	−0·7	+1·7	+0·7	+1·3	+1·4	+1·3	+2·0	+0·9	−0·6
	6·4 „ „	+0·1	−0·9	−3·6	−4·3	−2·6	−1·3	−0·7	−0·1	+0·4	−0·1	+1·2	+1·3	−0·9
	12·8 „ „	+0·2	+0·2	−1·6	−2·1	−2·0	−1·4	−1·2	−1·1	−0·7	−0·7	−0·2	+0·2	−0·9
	25·6 „ „	+0·4	+0·4	+0·2	−0·1	−0·6	−0·7	−0·3	−1·4	−1·3	−1·1	−0·8	−0·5	−0·5
ALLAHABAD	Air	−2·2	−6·8	−5·0	−5·5	−2·0	+5·2	+0·9	−0·6	0	−0·3	+1·2	−0·1	−1·3
	Surface	−1·9	−4·1	−2·7	+3·0	+1·4	+6·5	+2·6	−0·6	+1·5	+0·1	+0·8	−1·0	−0·4
CALCUTTA (ALIPORE)	Air	−0·6	−5·9	−3·4	−4·2	−1·6	+4·1	−0·1	+1·5	+0·4	+0·7	+0·4	+0·8	−0·7
	Surface	+1·5	−5·5	−13·4	−11·6	−6·2	+8·0	−2·3	+0·3	−1·4	−4·5	−3·4	+5·6	−2·7
BOMBAY	Air	−1·5	−3·9	−2·9	−3·2	−0·1	+3·1	+1·0	+1·3	+1·1	+1·9	+1·8	0	−0·1
	1 inch deep	−1·3	−3·9	−2·8	−2·7	+0·6	+3·3	+1·7	+1·7	+1·4	+2·1	+1·7	−0·4	+0·1
	9 inches „	+1·2	−1·8	−0·7	−0·7	+2·2	+4·2	+3·4	+3·5	+3·2	+3·5	+3·2	+1·5	+1·9
	1 ft. 8 ins. „	+3·0	+0·4	+1·0	+1·0	+3·4	+4·7	+4·3	+4·3	+4·1	+4·1	+4·0	+2·8	+3·1
	5 feet deep	+2·8	+1·9	+1·4	+1·5	+2·2	+3·3	+3·6	+3·7	+3·7	+3·6	+3·6	+3·1	+2·9
	11 „ „	+2·5	+2·2	+1·9	+1·5	+1·5	+1·8	+1·9	+2·2	+2·5	+2·7	+2·8	+2·8	+2·2

Temperature.

The methods of exposing the thermometers at observatories in India are described in pages 18-19 of the Annual Report for 1890.

The method of deducing the daily and monthly means from the observed readings of the instruments is described in page 12, para. 1 of Monthly Weather Review for January 1905.

The departures from normal of the mean temperature of each month given in Table II of the monthly reviews are deduced by a comparison of the actual monthly means with the normal monthly means given in the "Indian Meteorological Memoirs," Vol. XVII, pages 16 to 24.

The departures obtained by a comparison of these normal means with the actual monthly means in Table II of the Monthly Weather Reviews for the year are given in Table XI.

The mean departures given in Table XII of the Geographical Summary are derived from the departure data of Table II of the Monthly Weather Reviews of the year 1905.

In Table I, published in each Monthly Review, the mean temperature of the day is calculated, as in the Daily Weather Report, by the formula:—daily mean $= \frac{\text{maximum} + \text{minimum}}{2}$. It differs from the true daily mean by amounts varying slightly with the season. In Table I of the Monthly Weather Reviews of the year 1905 are given the departures from normal of the monthly means of daily maximum and minimum temperatures, as well as the departures of the monthly means of daily mean temperature given by the formula $\frac{1}{2}$ (maximum + minimum).

Normal monthly mean maxima and minima temperatures of 94 stations, calculated from the observations of the eleven years' period, 1878—1888, were given in the Annual Summary for 1891. The data for the years 1889—1893 were given in the 1894 Annual Summary, Tables I and II.

The additional data for the years 1894—1899 have been utilized to obtain what are probably slightly more accurate means than those published in the 1894 Annual Summary.

Tables XII and XIII (*a*), XIII (*b*) and XIII (*c*) give summaries of the temperature departure data for each month of the year 1905 and for the year. In the first table (Table XII) the same division has been adopted as that employed in the Annual Reports from 1881 to 1890. This enables a comparison to be made of the temperature data of the year 1905 with those of previous years given in the Annual Reports. In the second set of tables [Table XIII (*a*), XIII (*b*) and XIII (*c*) the departure data are given for the eleven meteorological provinces into which the Empire is divided for the purpose chiefly of comparing meteorological and health statistics, and in the last table (Table XIV) the data are given for 55 of the 57 smaller divisions or areas into which India is subdivided with a view to the comparison of meteorological and crop statistics:—

TABLE XI.—*Departures from normal of monthly and annual mean air temperature in 1905.*

Meteorological Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
Burma Coast and Bay Islands.	Port Blair	−1·4	−0·4	−0·3	−0·5	+0·9	−0·7	+0·9	+0·4	+0·4	+0·3	+1·4	0	
	Rangoon	−0·8	−0·7	−0·4	−1·0	+0·7	−0·6	−0·6	−0·3	−0·3	+0·4	−0·2	+1·2	−0·2
	Diamond Island	−1·2	−0·6	−0·2	−1·1	+0·1	−0·2	+1·0	+0·7	+0·2	+0·6	+0·4	+0·3	−0·1
	Akyab	−1·3	−2·2	−1·5	−3·4	−0·4	−0·3	−0·4	−0·3	−0·8	−0·1	−1·3	−1·3	−1·1
Bengal and Orissa.	Chittagong	+0·9	−4·9	−2·2	−3·2	+0·1	+1·0	−0·1	−0·1	−0·7	0	+1·4	−0·1	−1·0
	Calcutta (Alipore)	−0·6	−5·9	−3·4	−4·2	−1·6	+4·1	−0·1	+1·5	+0·4	+0·7	+0·4	+0·8	−0·7
	Saugor Island	−0·2	−6·4	−3·2	−3·0	−1·0	+2·9	−0·4	+1·7	+0·3	+0·6	+1·4	+1·0	−0·5
	False Point	−0·3	−4·9	−0·8	−2·3	−0·5	+2·5	+0·1	+1·8	−0·2	−0·3	0	−0·2	−0·4
Gangetic Plain and Chota Nagpur.	Hazaribagh	−1·9	−7·4	−4·8	−6·0	−1·4	+8·3	+0·2	+1·3	−0·5	+0·8	+0·7	−0·7	−1·0
	Allahabad	−2·2	−6·8	−5·0	−5·5	−2·0	+5·2	+0·9	−0·6	0	−0·3	+1·2	−0·1	−1·3

TABLE XI.—*Departures from normal of monthly and annual mean air temperatures in 1905.*—contd.

Meteorological Provinces.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
Upper Sub-Himalayas.	Dehra Dun	−3·1	+9·1	−6·1	−5·0	−0·4	+1·6	−0·3	+0·6	+0·2	+0·4	+0·8	−0·3	−1·7
	Roorkee	−3·5	+8·8	−6·5	−6·5	−0·3	+0·6	+0·9	+0·5	−0·4	−0·8	+0·1	−1·6	−2·2
	Meerut	−2·8	−7·9	−6·2	−4·8	+0·9	+2·1	+2·2	+3·4	+2·2	?	?	?	?
	Lahore	−3·6	−7·6	−5·8	−2·8	+3·7	+2·9	+2·0	+6·1	+0·9	+0·6	+2·6	+0·2	−0·1
	Ludhiana	−3·4	−8·6	−7·4	−5·6	+2·7	+2·3	+1·6	+3·3	+1·8	+1·2	+2·5	0	−0·8
Indus Valley and North-West Rajputana.	Peshawar	−2·8	−7·7	−6·9	−4·2	+1·4	+1·8	+2·2	+3·3	−0·4	+0·8	+2·3	−0·7	−0·9
	Jacobabad	−3·7	−6·0	−4·8	−0·6	+4·2	+0·3	+2·3	+1·3	+0·5	+1·7	+4·7	+1·5	+0·1
	Kurrachee	−3·0	−5·5	−3·2	−1·5	+1·2	−0·8	+1·1	−0·1	+0·8	+2·4	+3·4	+3·1	−0·2
East Rajputana, Central India and Gujarat.	Jaipur	−3·1	+9·2	−5·5	+4·9	+3·2	+3·6	+3·3	+6·2	+2·9	+2·7	+3·9	+0·3	+0·3
	Deesa	−2·3	−5·6	−3·9	−2·2	+4·2	+1·2	+0·9	+2·6	+2·4	+2·6	+4·0	−0·1	+0·3
Deccan	Belgaum	−1·2	+1·5	−2·8	−2·3	+0·7	+1·6	+0·6	+0·9	+0·5	+0·9	+2·8	+0·8	+0·1
	Sholapur	−0·1	−3·7	−2·3	−3·1	+2·8	+2·6	+1·5	+1·0	+3·4	+2·4	+2·5	+0·8	+0·7
	Akola	−0·4	−6·3	−2·2	−3·6	+3·4	+3·9	+0·8	+0·8	−0·9	+0·5	+1·5	−1·0	−0·3
	Buldana	−1·6	−6·5	−4·1	−3·6	+3·6	+2·8	+0·6	+0·5	−0·4	+1·2	+0·9	−0·6	−0·6
	Khandwa	−0·6	−6·9	−2·7	−3·7	+3·8	+3·1	−0·3	+0·9	−0·3	0	+1·9	−0·2	−0·4
	Nagpur	−0·4	−5·2	−2·0	−4·6	+1·1	+3·3	+0·7	+0·9	−1·6	−0·2	+0·9	−0·2	−0·4
	Hyderabad (Deccan)	+0·7	−2·2	−0·5	−1·5	+0·3	+3·2	+2·9	+0·9	+0·9	+1·1	+2·2	+0·1	+0·7
West Coast	Bombay	−1·5	−3·9	−2·9	−3·2	−0·1	+3·1	+1·0	+1·3	+1·1	+1·9	+1·8	0	−0·1
	Karwar	−1·8	−2·3	−3·5	−4·8	−0·2	+0·1	+1·9	+0·2	+1·0	+0·7	+2·6	−0·9	−0·6
South India	Salem	+1·8	+3·3	+2·3	+0·1	+0·9	+1·0	+2·5	+1·9	+1·4	+1·1	+2·4	+0·6	+1·3
	Chitaldroog	+0·3	+0·1	−0·9	+0·9	+1·1	+1·1	+1·4	+1·5	+1·5	+0·5	+3·0	+1·5	+1·0
	Bangalore	+1·5	+2·2	+0·7	−0·5	+0·4	+0·9	+1·1	+1·0	+1·0	+0·3	+1·1	+0·5	+0·9
	Hassan	+0·8	+1·6	+0·2	+1·0	+1·8	+2·2	+1·6	+1·8	+1·6	+0·5	+2·9	+0·6	+1·4
	Mysore	+1·4	+2·0	+0·3	+0·9	+0·4	+0·2	−0·1	+0·2	−0·2	0	+2·5	+0·4	+0·6
	Madras	−1·8	+1·6	+2·6	−0·4	−2·0	+0·8	+2·0	+0·1	+2·0	−0·3	+1·1	−1·1	+0·7
	Bellary	+1·4	+0·9	−0·4	−0·6	+0·9	+0·7	+2·1	+0·1	+2·0	+0·9	+2·8	+1·2	+1·0
	Waltair	−0·2	−1·9	−0·6	−1·0	−2·0	+1·1	+0·2	−0·9	−1·6	−0·4	+0·3	−0·6	−0·6
Hill Station, Baluchistan.	Quetta	−4·1	−8·4	−7·4	−1·2	+1·3	−0·9	−0·1	+0·6	−1·7	+1·7	+3·3	−0·7	−1·5
Hill Stations, Northern India.	Leh	−1·6	−6·7	−4·6	−6·4	−0·4	−3·1	−3·5	−2·0	−2·3	+0·3	+0·1	−1·7	−2·7
	Srinagar	+1·2	−3·3	−2·8	−4·2	+0·1	−0·6	+1·1	+1·7	+0·2	+2·7	+1·2	−1·1	−0·3
	Simla (Ridge)	−3·2	−10·1	−9·4	−4·2	+0·7	+0·9	+2·3	+0·4	+0·5	+0·8	−0·4	−1·6	−1·9
	Chakrata	−5·8	−10·7	−8·4	−4·8	−0·3	+0·9	+0·4	+0·4	+0·4	+1·4	+1·8	0	−2·1
	Ranikhet	+0·1	−11·6	−7·9	−5·7	+0·8	+1·9	+0·4	+0·9	+0·1	+0·7	+0·1	−1·9	−2·4
	Katmandu	−2·0	−5·8	−2·2	−3·3	+1·5	+2·2	+0·2	+0·6	+0·5	+0·4	+1·5	−2·5	−0·7
	Darjeeling	−2·4	−5·4	−1·4	−4·4	−0·5	+1·7	+0·4	+0·2	+0·5	+0·5	+1·7	−1·0	−0·8

TABLE XI.—*Departures from normal of monthly and annual mean air temperatures in 1905*—concld.

Meteorological Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
Hill Stations, Central India.	Mount Abu	−4·3	−8·5	−7·2	−3·5	+4·9	+0·4	−0·3	+0·2	+0·6	+1·7	+2·2	−4·6	−1·5
	Pachmarhi	−0·3	−5·7	−2·1	−3·5	+3·0	+5·3	+0·6	+0·7	+0·1	−0·5	+0·2	−1·7	−0·3
	Chikalda	−2·1	−6·9	−4·4	−3·2	+3·6	+4·3	+0·2	+0·7	−0·8	+0·8	+0·8	−0·6	−0·6
Extra India.	Aden	−1·4	?	?	?	−1·0	+0·5	+1·5	+2·5	−1·1	0	+0·8	+1·2	?
	Perim	−0·3	0	+0·7	0	+0·3	+1·5	+2·2	+1·8	−0·5	+0·6	+0·2	+1·1	+0·6
	Zanzibar	+0·7	+0·7	−0·2	−1·5	+0·3	+0·5	+0·7	+0·7	+1·1	+1·1	+2·5	+0·6	+0·6
	Port Victoria (Seychelles)	+0·8	+0·9	+3·2	+2·0	+1·2	+1·4	+1·4	+1·2	+0·7	+1·4	+2·2	+1·4	+1·5
	Mauritius (Pamplemouses)	−0·3	+0·4	+0·1	0	−0·2	+0·2	+1·1	−0·3	+0·5	+0·7	−0·6	−0·8	+0·4

TABLE XII.—*Geographical summary of the temperature departure data of Table II in the Monthly Weather Reviews of 1905.*

Meteorological Area.	Number of stations.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
North-West Himalayas	5	−3·1	−8·5	−6·6	−5·1	+0·3	0	0	+0·3	−0·2	+1·2	+0·6	−1·1	−1·9
Sikkim Himalayas and Nepal.	2	−2·2	−5·6	−1·8	−3·9	+0·5	+2·0	+0·3	+0·4	+0·5	+0·5	+1·6	−1·8	−0·8
Punjab Plains	3	−3·3	−8·0	−6·7	−4·2	+2·6	+2·3	+1·9	+4·2	+0·8	+0·9	+2·5	−0·2	−0·6
Gangetic Plain	3—4	−2·9	−8·2	−6·0	−5·5	−0·5	+2·4	+1·0	+1·0	+0·5	−0·2	+0·7	−0·7	−1·5
Western Rajputana	4	−3·3	−6·4	−4·8	−2·0	+3·6	+0·3	+1·0	+3·0	+1·2	+2·1	+3·6	0	−0·3
Eastern Rajputana and Central India.	1	−3·1	−9·2	−5·5	−4·9	+3·2	+3·6	+3·3	+6·7	+2·9	+2·7	+3·9	+0·3	+0·3
Nerbudda Valley	1	−0·6	−6·9	−2·7	−3·7	+3·8	+3·1	−0·3	+0·9	−0·3	0	+1·9	−0·2	−0·4
Chota Nagpur	1	−1·9	−7·4	−4·8	−6·0	−1·4	+8·3	+0·2	+1·3	−0·5	+0·8	+0·7	−0·7	−1·0
Lower Bengal	2	−0·4	−6·2	−3·2	−3·6	−1·3	+3·5	−0·3	+1·6	+0·4	+0·7	+0·9	+0·9	−0·6
Orissa	1	−0·3	−4·9	−0·8	−2·3	−0·5	+2·5	+0·1	+1·8	−0·2	−0·3	0	−0·1	−0·4
Central Provinces (South) and Berar.	5	−1·0	−6·1	−3·9	−3·7	+2·9	+4·3	+0·6	+0·7	−0·7	+0·4	+0·9	−0·8	−0·5
Konkan	2	−1·7	−3·2	−3·2	−4·0	+0·2	+1·6	+1·5	+0·8	+1·1	+1·3	+2·2	−0·5	−0·4
Deccan, Hyderabad and Mysore.	8	+0·6	−0·1	−0·7	−0·7	+1·1	+1·6	+1·4	+0·9	+1·3	+0·8	+2·4	+0·7	+0·8
East Coast and Carnatic	3	−0·1	+1·0	+1·4	−0·4	−1·0	+1·0	+1·6	+0·4	+0·6	+0·1	+1·3	−0·4	+0·5
Arakan and Pegu	4	−1·2	−2·1	−1·1	−2·2	+0·1	−0	0	0	−0·4	+0·1	−0·6	0	−0·6
Bay Islands	1	−1·4	−0·4	−0·3	−0·5	+0·9	−0·7	+0·9	+0·4	+0·4	−0·3	+1·4	0	0
Extra Tropical India	22—23	−2·7	−7·5	−5·2	−4·2	+2·1	+2·9	+0·7	+1·5	+0·5	+1·0	+1·7	−0·5	−1·0
Tropical India	24	−0·4	−2·0	−1·2	−1·9	+0·9	+1·7	+0·9	+0·7	+0·4	+0·5	+1·3	0	+0·1
Whole India	46—47	−1·5	−4·7	−3·1	−3·0	+1·0	+1·8	+0·8	+1·1	+0·4	+0·7	+1·5	−0·2	−0·4

TABLE XIII (*a*).—*Departure of the mean monthly maximum temperature from the normal in the eleven meteorological provinces of India in 1905.*

Meteorological Province.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma Coast and Bay Islands.	−1·8	−1·3	−1·4	−0·8	+1·5	−0·9	−0·2	+0·1	−0·8	−0·4	−0·3	+0·7	−0·5
Burma Inland . .	−3·4	−4·6	−4·9	−3·3	+1·6	−0·5	−0·5	−1·1	−1·6	−1·6	−1·5	−2·5	−2·0
Assam . . .	−2·4	−6·3	−4·7	−3·6	−0·6	−0·2	+0·3	+2·0	+0·4	−0·8	−0·1	−0·8	−1·7
Bengal and Orissa .	−2·1	−7·1	−4·9	−4·9	−2·6	+2·9	−0·2	+0·1	−0·6	+0·1	+1·1	+0·2	−1·5
Gangetic Plain and Chota Nagpur.	−3·7	−9·5	−6·9	−6·7	−2·5	+6·9	+0·9	+0·1	−1·0	+1·3	+2·0	−0·2	−1·6
Upper Sub-Himalayas .	−6·2	−11·4	−9·9	−5·8	+0·9	+2·8	+2·1	+3·6	+1·1	+1·6	+2·3	−1·5	−1·7
Indus Valley and North-West Rajputana.	−5·7	−9·1	−8·0	−3·9	+3·0	+0·5	+2·1	+3·3	+0·2	+1·5	+2·7	−1·0	−1·2
East Rajputana, Central India and Gujarat.	−3·9	−8·3	−6·9	−4·7	+2·6	+3·6	+1·4	+4·5	+2·2	+2·9	+5·4	+1·1	−0·2
Deccan . . .	−1·2	−5·1	−3·2	−3·6	+2·0	+6·0	+1·1	+0·9	+0·4	+1·9	+2·1	+0·9	+0·2
West Coast . .	−1·4	−1·7	−1·8	−3·1	−0·8	+0·6	+1·5	+0·7	+1·0	+0·3	+1·3	−0·1	−0·3
South India . .	+0·6	+0·6	+0·6	−0·6	−0·8	+1·5	+2·8	+1·2	+1·6	+0·8	+1·8	+1·7	+1·0

TABLE XIII (*b*).—*Departure of the mean monthly minimum temperature from the normal in the eleven meteorological provinces of India in 1905.*

Meteorological Provinces.	January.	February.	March.	April.	May.	June	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma Coast and Bay Islands.	+0·4	+0·7	+0·7	−1·0	+0·6	+0·4	+0·8	+0·5	+0·4	+1·0	0	+2·1	+0·6
Burma Inland . .	−0·3	−1·7	+0·3	−3·7	+0·7	+0·9	+0·7	+0·5	+0·3	+1·2	0	+1·9	+0·1
Assam . . .	−1·8	−6·2	−1·6	−4·5	+0·2	−0·6	−0·4	−0·1	+0·3	−0·5	+0·4	+1·2	−1·1
Bengal and Orissa .	−0·5	−5·6	−1·4	−4·1	−0·7	+1·3	−0·2	+0·6	+0·1	+0·7	−0·4	+0·2	−0·8
Gangetic Plain and Chota Nagpur.	−0·6	−6·1	−2·7	−5·9	−1·9	+4·1	+0·3	+0·4	+0·3	−0·9	0	−0·9	−1·2
Upper Sub-Himalayas	−0·4	−6·1	−3·8	−4·3	+2·1	+3·1	+1·7	+2·8	+1·5	+0·6	+2·0	+1·1	0
Indus Valley and North-West Rajputana.	−1·6	−6·0	−3·4	−3·2	+2·3	+0·5	+2·0	+1·7	+0·2	+0·8	+4·0	+2·8	0
East Rajputana, Central India and Gujarat.	−0·8	−5·5	−2·1	−2·5	+2·1	+2·5	+1·1	+2·1	+1·7	+1·7	+3·9	+0·8	+0·3
Deccan . . .	−0·1	−5·3	−1·5	−3·7	+1·6	+3·0	+0·7	+0·9	+0·2	+0·6	+1·1	−1·4	−0·4
West Coast . .	0	−1·6	−2·1	−2·3	−0·5	+0·6	+1·4	+0·6	+0·6	+0·8	+2·0	−1·3	−0·2
South India . .	+0·4	+1·6	+1·3	−0·2	−0·3	+0·7	+1·2	+0·5	+1·0	0	+1·0	−1·6	+0·5

TABLE XIII (*c*).—*Departure of the mean monthly temperature from the normal in the eleven meteorological provinces of India in 1905.*

METEOROLOGICAL PROVINCE.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma Coast and Bay Islands.	—0·7	—0·8	—0·3	—0·9	+1·1	—0·4	+0·3	+0·3	—0·2	+0·3	—0·2	+1·4	0
Burma Inland . .	—1·9	—3·2	—2·3	—3·6	+1·1	+0·2	+0·1	—0·3	—0·6	—0·2	—0·8	—0·3	—1·0
Assam . . .	—·1	—6·3	—3·2	—4·1	—0·2	—0·4	—0·1	—1·0	+0·4	—0·7	+0·2	+0·2	—1·4
Bengal and Orissa .	—1·3	—6·4	—3·2	—4·5	—1·7	+2·1	—0·2	+0·3	—0·3	+0·4	+0·3	+0·2	—1·2
Gangetic Plain and Chota Nagpur.	—2·2	—7·8	—4·8	—6·3	—2·2	+5·5	+0·6	+0·2	—0·3	+0·2	+1·0	—0·6	—1·4
Upper Sub-Himalayas	—3·3	—8·8	—6·9	—5·9	+1·5	+2·9	+1·9	+3·3	+1·3	+1·1	+2·2	—0·2	—0·8
Indus Valley and North-West Rajputana.	—3·7	—7·6	—5·7	—3·5	+2·7	+0·5	+2·1	+2·5	+0·2	+1·2	+3·4	+0·9	—0·6
East Rajputana, Central India and Gujarat.	—2·4	—6·9	—4·6	—4·2	+2·4	+3·1	+1·3	+3·3	+1·9	+2·3	+3·7	+0·8	+0·1
Deccan . . .	+0·7	—5·2	—2·4	—3·7	+1·8	+4·5	+0·9	+0·9	+0·3	+0·6	+1·6	—0·3	—0·1
West Coast . .	+0·7	—1·7	—2·0	—2·8	—0·7	+0·6	+1·5	+0·6	+0·8	+0·6	+1·7	—0·7	—0·2
South India . .	+0·5	+1·1	+1·0	—0·4	—0·5	+1·1	+2·0	+0·8	+1·3	+0·4	+1·4	0	+0·7

TABLE XIV.—*Departures from the normal of the mean monthly and annual temperatures in 55 of the 57 meteorological districts or divisions of India in 1905.*

PROVINCE.	Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
		°	°	°	°	°	°	°	°	°	°	°	°	°
BURMA . . .	1. Tenasserim . .	—0·6	0·5	0	+0·8	+2·0	—0·3	+0·6	+1·0	+0·2	+0·3	+0·1	+2·7	+0·5
	2. Lower Burma Deltaic	—0·9	+0·4	—0·1	—1·0	+0·7	—0·5	+0·4	+0·2	—0·2	+0·3	—0·2	+0·6	—0·1
	3. Central do.	—1·5	—1·3	—1·0	—2·1	+1·5	—0·3	+0·1	+0·1	—0·9	+0·6	—0·6	+0·6	—0·3
	4. Upper do.	—1·9	—3·6	—2·6	—3·5	+1·1	+0·3	+0·2	—0·5	—0·7	—0·4	—0·8	—0·5	—1·1
	5. Arakan . . .	—1·3	—2·3	—1·6	—3·3	—0·3	—0·1	—0·3	—0·4	—0·8	—0·1	—1·3	—1·2	—1·1
BENGAL AND ASSAM .	6. Eastern Bengal .	—1·4	—5·9	—3·4	—4·2	—0·4	+0·8	+0·1	—0·2	—0·4	+0·6	+0·4	+0·7	—1·1
	7. Assam Surma . .	—1·5	—3·8	—3·1	—2·9	+0·7	—0·7	+0·5	—1·0	+0·1	—1·1	—0·5	+0·9	—1·2
	8. Do. Hills . .	...	...	...	...	...	...	...	...	...	...	...	...	...
	9. Do. Brahmaputra .	—2·5	—6·6	—3·2	—4·7	—0·7	—0·3	—0·4	—1·1	+0·5	—0·5	+0·5	—0·1	—1·6
	10. Deltaic Bengal . .	—1·1	—6·8	—3·8	—4·3	—1·6	+3·2	—0·4	+1·0	—0·1	+0·3	+0·5	+0·6	—1·0
	11. Central do. . .	—1·5	—6·5	—3·9	—5·5	—3·0	+2·2	—0·4	+0·3	—0·5	+0·6	+0·7	+0·6	—1·4
	12. North do. . .	—1·9	—7·4	—2·9	—5·2	—1·7	+0·2	+0·2	—1·2	+0·3	+0·4	0	+0·3	—1·6
	13. Bengal Hills . .	—2·5	—5·6	—1·8	—4·2	—0·7	+1·7	+0·3	+0·1	+0·7	+0·5	+0·3	—0·9	—1·0
	14. Orissa . . .	—0·9	—5·8	—1·7	—3·4	—1·5	+4·6	—0·1	+1·8	—0·3	—0·1	+0·1	—0·8	—0·7
	15. Chota Nagpur . .	—1·6	—7·6	—3·8	—6·0	—2·3	+8·1	—0·2	+1·3	—0·6	+0·5	+0·9	—0·8	—1·3
	16. South Bihar . .	—2·4	—7·4	—4·8	—6·6	—2·8	+5·2	+0·5	—0·8	—1·5	+0·1	+1·0	—0·6	—1·7
	17. North do. . .	—1·7	—7·3	—3·7	—6·9	—2·6	+1·2	—0·3	—1·6	—0·6	+0·4	0	—0·7	—1·9

TABLE XIV.—*Departures from the normal of the mean monthly and annual temperatures in 55 of the 57 meteorological districts or divisions of India in 1905*—contd.

Province.	Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
United Provinces of Agra and Oudh.	18. United Provinces East	−2·4	−7·7	−5·4	−6·4	−2·1	+5·3	+0·7	−0·7	−0·3	−0·6	+1·3	−0·5	−1·6
	19. South Oudh . .	−2·4	−8·0	−5·2	−6·3	−1·7	+5·7	+1·0	−0·4	+0·1	+0·4	+2·4	0	−1·2
	20. North do. . .	−2·1	−7·8	−5·4	−7·2[2]	−3·5[2]	+4·8	+1·5	−1·1	+0·4	+0·3	−0·2	−0·4	−1·6
	21. United Provinces Central.	−2·2	−8·2	−5·1	−4·9	+1·4	+6·1	+3·4	+4·4	+2·1	+1·7	+3·2	+0·7	+0·2
	22. United Provinces West	−3·2	−8·9	−6·8	−5·6	+0·8	+3·0	+2·3	+5·1	+3·0	+1·8	+3·4	+0·3	−0·4
	23. United Provinces East Submontane.	−3·0	−8·2	−6·0	−7·8	−3·4	+2·5	−0·3	−2·3	−1·9	−0·8	−0·2	−1·4	−2·7
	24. United Provinces West Submontane.	−3·6	−10·3	−6·8	−6·1	−0·6	+2·2	+0·6	+0·3	+0·5	+0·3	+1·0	−0·6	−1·9
	25. United Provinces Hills	−5·8	−11·3	−8·4	−5·9	+0·5	+1·7	+0·1	+0·8	+0·4	+1·1	+1·1	−0·7	+2·2
Punjab .	26. South-East Punjab .	−4·3	−10·2	−7·9	−5·5	+1·0	+3·3	+2·4	+6·3	+2·5	+1·6	+2·9	−0·1	−0·7
	27. South do. .	−4·3	−9·3	−7·0	−5·1	+1·9	+3·4	+2·1	+6·0	+1·3	+0·8	+2·8	−0·9	−0·7
	28. Central do. .	−3·1	−8·3	−6·1	−3·2	+3·6	+3·0	+2·1	+6·0	+1·0	+0·	+2·8	0	−0·1
	29. Punjab Submontane .	−2·8	−8·1	−6·9	−4·5	+2·8	+3·4	+2·4	+3·8	+1·5	+1·5	+2·4	+0·2	−0·4
	30. Do. Hills . .	−2·6	−8·2	−6·8	−6·0	−0·9	−1·4	−1·1	0	−1·5	+0·7	+0·8	−2·0	−2·4
	31. West Punjab . .	−3·4	−7·5	−5·7	−4·2	+2·3	+0·7	+2·2	+3·5	−0·3	+1·1	+3·1	+0·1	−0·7
North-West Frontier Province.	32. North-West Frontier Province.	−3·1	−8·0	−7·2	−4·3	+1·7	+1·5	+2·1	+2·9	−0·7	+0·3	+2·7	−0·5	−1·0
Bombay and Malabar Coast Districts (Madras).	33. Malabar . . .	0	−0·1	−0·8	−1·5	−0·9	+0·1	+1·2	+0·3	+0·6	+0·3	+1·4	−0·8	0
	34. Madras South Central	+1·4	+2·8	+1·3	+0·1	+0·5	+0·4	+1·8	+1·2	+0·8	+0·4	+1·9	−0·2	+1·0
	35. Coorg . . .	−0·4	+0·9	−0·7	−0·4	+0·1	+0·4	+0·6	+0·5	−0·1	+0·3	+1·4	0	+0·2
	36. Mysore . . .	+0·9	+1·4	0	+0·5	+0·7	+1·0	+1·1	+1·1	+0·8	+0·5	+2·1	+0·6	+0·9
	37. Konkan . . .	−1·7	−3·3	−3·3	−4·1	−0·3	+1·0	+1·7	+0·9	+1·0	+0·8	+1·9	−0·6	−0·5
	38. Bombay Deccan .	−0·9	−3·3	−2·5	−2·6	+2·1	+2·5	+1·2	+0·7	+1·2	+1·9	+2·3	+0·4	+0·3
	39. Hyderabad North .	...	...	...	...	...	...	...	...	...	...	...	...	...
	40. Khandesh . .	−0·4	−4·8	−4·6	−3·7	+3·8	+3·2	−0·1	+0·8	+1·6	+3·1	+1·9	+0·3	+0·3
Central Provinces and Berar.	41. Berar . . .	−0·5	−6·3	−4·4	−3·5	+3·5	+5·2	+1·1	+1·4	−1·1	+0·3	+1·3	−0·9	−0·2
	42. Central Provinces West.	−0·6	−6·8	−4·5	−4·2	+2·5	+5·3	+0·4	+1·1	−0·9	−0·7	+1·6	−0·8	−0·5
	43. Central Provinces Central.	−0·8	−7·0	−4·7	−4·8	+1·6	+5·7	+1·3	+1·2	−0·4	+0·2	+1·4	−0·3	−0·4
	44. Central Provinces East	−1·7	−7·4	−5·1	−5·2	−1·3	+6·7	−0·5	+0·7	−1·3	−0·2	+0·1	−1·0	−1·2

TABLE XIV.—*Departures from the normal of the mean monthly and annual temperatures in 55 of the 57 meteorological districts or divisions of India in 1905*—concld.

Province.	Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
Bombay (North)	45. Gujarat	−1·8	−5·1	−3·7	−3·1	+2·4	+2·5	+0·3	+1·9	+1·6	+2·4	+3·4	+0·8	+0·1
	46. Kathiawar and Cutch	−2·7	−5·1	−4·2	−3·5	+1·0	−0·2	+0·4	+1·3	+1·4	+1·9	+2·9	+1·1	−0·5
	47. Sind	−3·6	−6·4	−4·4	−2·0	+2·4	−0·3	+1·9	+0·9	+0·6	+1·7	+4·1	+2·2	−0·2
	48. Baluchistan Hills	−3·5	−8·4	−6·6	−2·4	+0·5	−1·4	+0·3	+0·8	−4·4	+2·2	+2·0	−1·6	−1·9
Rajputana and Central India.	49. Central India East	−2·1	−7·6	−4·2	−5·0	+2·1	+4·6	+1·2	+2·1	+0·6	+1·3	+2·8	+0·4	−0·3
	50. Rajputana East, Central India West.	−2·4	−8·8	−5·0	−4·6	+4·2	+3·5	+2·8	+8·1	+3·2	+3·6	+4·9	+0·5	+0·8
	51. West Rajputana	−4·4	−9·2	−6·0	−4·4	+4·6	+0·4	+2·2	+3·2	+1·3	+1·4	+3·2	+1·4	−0·5
Madras	52. East Coast North	+0·1	−1·7	−0·1	−1·0	−2·2	+2·7	+1·3	+1·0	−0·3	+0·5	+0·4	−0·4	0
	53. Hyderabad South	+0·4	−2·1	−0·9	−1·5	+1·0	+2·6	+1·6	+0·2	+1·8	+0·7	+1·9	−0·2	+0·5
	54. Madras Central	+1·7	+1·0	+0·4	−0·6	+0·5	+0·8	+2·3	−0·1	+3·1	+0·7	+2·1	+0·2	+1·0
	55. East Coast Central	−0·7	+0·5	+1·1	−1·0	−2·2	+2·6	+3·3	+0·5	+1·3	0	+1·2	−1·3	+0·4
	56. East Coast South	−0·1	+1·8	+2·2	−0·4	−0·9	+1·7	+2·6	+1·1	+2·0	+0·4	+1·5	−0·6	+0·9
	57. Madras South	+0·1	+0·9	+2·1	−0·9	−0·7	−0·3	+1·8	+1·3	+0·7	+0·3	0	+0·5	+0·5

In the discussion of the meteorology of India, during the year 1905, the year is divided into four seasons according to the following arrangement:—

1st.—The cold weather period, including the months of January and February.

2nd.—The hot weather period, including the months of March, April and May.

3rd.—The period of the south-west monsoon rains proper, including the months of June, July, August and September.

4th.—The period of the retreating south-west monsoon, including the months of October, November and December.

The following is a summary of the most important temperature conditions during the year:—

1. The cold weather period.—Weather was unusually stormy during this period in northern India and the rainfall there was accordingly much above the average. The snowfall in the hill districts bordering upper India was also greatly in excess of the normal, and in some places occurred as low down as 1,800 feet. The chief feature of the weather, however, was the intense cold in extra tropical India, the season in this respect being the coldest on record. Several cold waves advanced across the country from Baluchistan to Upper Burma. The most remarkable of the series were those of January 21st to the 26th and January 27th to February 3rd. During their passage maximum temperature was from 12° to 32° and night temperature from 8° to 26° below the normal and sharp frost was experienced both in the hills and plains; ordinarily the effects of cold waves are restricted to northern India, but on these occasions they were felt as far south as the parallel of 16° N.

The lowest temperatures of the period and also of the year in Persia, Afghanistan and north-western and central India were generally recorded during the passage of the second of the two waves described above, and were in many cases lower than any previously on record.

(*a*) The mean daily maximum temperature of the period January and February was below the normal over the whole of the country with the exception of Mysore and south and central Madras. The defect was greatest in the Punjab (8°·4) and Rajputana (8°·1) whence it diminished eastwards and southwards, being replaced by a very slight excess

in Madras: also it was much greater in February than in January

Province or Division.	Departure of maximum temperature from normal in		
	January.	February.	Cold weather period, January and February.
	°	°	°
Burma	−2·5	−2·7	−2·6
Assam	−2·4	−6·3	−4·4
Bengal	−2·1	−7·0	−4·6
Orissa	−2·2	−7·1	−4·7
Bihar	−3·2	−8·2	−5·7
Chota Nagpur	−3·3	−9·6	−6·5
United Provinces of Agra and Oudh	−4·7	−10·6	−7·7
Punjab	−6·2	−10·6	−8·4
North-West Frontier Province	−5·7	−8·8	−7·3
Sind	−5·6	−8·4	−7·0
Rajputana	−5·1	−11·1	−8·1
Gujarat	−3·3	−5·7	−4·5
Central India	−3·3	−8·7	−6·0
Central Provinces	−1·2	−7·0	−4·1
Berar	−0·6	−5·9	−3·3
West Coast	−1·3	−1·7	−1·5
Bombay Deccan	−1·4	−3·2	−2·3
Hyderabad	−0·4	−2·4	−1·4
Mysore	+1·2	+1·3	+1·3
Madras Coast	−0·1	−0·1	−0·1
Madras Deccan	+0·9	−0·3	+0·3
South India	+1·1	+1·4	+1·3

(*b*) The departures of minimum temperature although similar in character to those of the day temperature were much smaller in amount. Night temperature was normal in Burma, in slight excess in Madras and Mysore and in moderate to considerable defect over the remainder of the country. The deficiency was most pronounced (4°·2) in the North-West Frontier Province.

Province or Division.	Departure of minimum temperature from normal in		
	January.	February.	Cold weather period, January and February.
	°	°	°
Burma	+0·3	−0·3	0
Assam	−1·8	−6·2	−4·0
Bengal	−0·7	−6·0	−3·4
Orissa	+0·2	−3·6	−1·7
Bihar	−1·0	−6·4	−3·7
Chota Nagpur	+0·1	−5·5	−2·7
United Provinces of Agra and Oudh	−0·7	−6·2	−3·5
Punjab	−0·3	−5·9	−3·1
North-West Frontier Province	−1·1	−7·2	−4·2
Sind	−1·7	−4·4	−3·1
Rajputana	−1·2	−6·8	−4·0
Gujarat	−1·3	−4·4	−2·9
Central India	−0·8	−6·5	−3·7
Central Provinces	−0·5	−6·9	−3·7
Berar	−0·4	−6·7	−3·6
West Coast	0	−1·2	−0·9
Bombay Deccan	0	−4·5	−2·3
Hyderabad	+1·1	−1·7	−0·3
Mysore	+0·5	+1·5	+1·0
Madras Coast	+0·5	+1·0	+0·5
Madras Deccan	+2·4	+2·4	+2·4
South India	+0·5	+2·4	+1·5

(*c*) Save in Madras and Mysore mean temperature was lower than usual throughout the country, the deficiency being considerably greater in February than in January. The depression was absolutely greatest in the Punjab, the North-West Frontier Province and Rajputana, where it averaged 5°·9 in amount.

Province or Division.	Departure of mean temperature from normal in		
	January.	February.	Cold weather period, January and February.
	°	°	°
Burma	−1·1	−1·5	−1·3
Assam	−2·1	−6·3	−4·2
Bengal	−1·4	−6·5	−4·0
Orissa	−2·0	−5·4	−3·7
Bihar	−2·1	−7·3	−4·7
Chota Nagpur	−1·6	−7·6	−4·6
United Provinces of Agra and Oudh	−2·7	−8·4	−5·6

Province or Division.	Departure of mean temperature from normal in		
	January.	February.	Cold weather period, January and February.
	°	°	°
Punjab	−3·3	−8·3	−5·8
North-West Frontier Province	−3·4	−8·0	−5·7
Sind	−3·7	−6·4	−5·1
Rajputana	−3·2	−9·0	−6·2
Gujarat	−2·3	−5·1	−3·7
Central India	−2·1	−7·6	−4·9
Central Provinces	−0·9	−7·0	−4·0
Berar	−0·5	−6·3	−3·4
West Coast	−0·7	−1·7	−1·2
Bombay Deccan	−0·7	−3·9	−2·31
Hyderabad	+0·4	−2·1	−0·9
Mysore	+0·9	+1·4	+1·2
Madras Coast	−0·3	+0·5	+0·1
Madras Deccan	+1·7	+1·0	+1·4
South India	+0·8	+1·9	+1·4

(*d*) As is almost invariably the case during this period, there was a marked contrast between the temperature conditions of northern and southern India.

(*e*) The deficiency of temperature was even more marked at the hill stations than in the adjacent plains, and was much greater in the day than in the night temperature. As might be expected from the character of the snowfall conditions of the period, the greatest depression of temperature occurred at the Sub-Himalayan stations:—

Station.	Departure of mean temperature from normal.		
	January.	February.	Period, January and February.
	°	°	°
Murree	−8·2	−12·8	−10·5
Simla	−3·1	−10·2	−6·7
Chakrata	−5·6	−10·6	−8·1
Ranikhet	−5·9	−11·8	−8·9

(*f*) The low temperature conditions in northwest India extended northwards to Kashgar and westwards to Kabul and Baghdad:—

Station.	Departure from normal of period, January and February		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Baghdad	−2·6	−3·9	−3·0
Teheran	−2·4	−4·5	−3·5
Ispahan	−3·9	−4·4	−4·2
Bushire	+2·1	−2·7	+1·4
Jask	−2·8	−1·6	−2·2
Chaman	−7·3	−4·9	−6·1
Quetta	−8·4	−4·7	−6·6
Kabul	−9·7	−7·8	−8·8
Gilgit	−3·1	−3·5	−3·3
Srinagar	−2·7	+0·1	−1·3
Kashgar	−4·8	−6·6	−5·7
Kailang	−2·9	−3·4	−3·7
Leh	−4·9	−4·3	−4·6

II. The hot weather period.—The cold weather conditions which usually do not outlast the first half of March were in the present year prolonged well into April; in fact the meteorology of March and the first three weeks of April was in all its essential features similar to that of January and February. Weather was unusually rainy in the plains of northern India and moderate to heavy snow fell in the western Himalayas. Conditions were, on the other hand, more settled than usual during the remainder of the period, except in north-east India and the south of the Peninsula, where the usual thundershowers were more frequent than usual.

(*i*) Maximum temperature was on the average of the whole period, March to May, in defect of the normal over practically the whole of the country, the defect being largest over northern India, where it ranged from 1°·7 in Sind to 5°·3 in Bihar and the United Provinces:—

Province or Division.	Departure of maximum temperature from normal in			
	March.	April.	May.	Period, March to May.
	°	°	°	°
Burma	−2·9	−1·8	+1·6	+1·0
Assam	−4·7	−3·6	−0·6	−3·0
Bengal	−5·2	−5·0	−2·6	−4·3
Orissa	−3·4	−4·3	−2·1	−3·3
Bihar	−6·0	−6·4	−3·6	−5·3
Chota Nagpur	−5·6	−6·3	−2·2	−4·7
United Provinces of Agra and Oudh.	−8·3	−6·5	−1·0	−5·3
Punjab	−9·6	−5·4	+1·9	−4·4
North-West Frontier Province	−9·4	−4·2	+1·4	−4·1

Province or Division.	Departure of maximum temperature from normal in			
	March.	April.	May.	Period, March to May.
	°	°	°	°
Sind	−6·7	−2·0	+3·5	−1·7
Rajputana	−7·9	−5·1	+4·3	−2·9
Gujarat	−6·3	−3·4	+2·5	−2·4
Central India	−6·6	−5·9	+2·3	−3·4
Central Provinces	−3·9	−5·2	+1·4	−2·6
Berar	−3·4	−3·3	+3·6	−1·0
West Coast	−1·8	−3·1	−0·8	−1·9
Bombay Deccan	−2·6	−1·7	+3·0	−0·4
Hyderabad	−1·2	−1·3	+0·8	−0·6
Mysore	+0·4	+1·6	+0·5	+0·8
Madras Coast	+0·5	−1·2	−1·7	−0·8
Madras Deccan	−0·3	−0·4	+0·5	−0·1
South India	+1·4	−1·5	−0·8	−0·3

(2) The departures from normal of minimum temperature were generally of the same sign (*i.e.*, negative) as those of the day temperature, though, as might be expected from the determining conditions, not so large in amount:—

Province or Division.	Departure of minimum temperature from normal in			
	March.	April.	May.	Period, March to May.
	°	°	°	°
Burma	+0·6	−2·0	+0·6	−0·3
Assam	−1·6	−4·5	+0·2	−2·0
Bengal	−1·9	−4·5	−0·7	−2·4
Orissa	0	−2·5	−0·9	−1·1
Bihar	−2·4	−6·1	−1·7	−3·4
Chota Nagpur	−1·9	−5·6	−2·3	−3·3
United Provinces of Agra and Oudh.	−3·4	−5·4	−0·2	−3·0
Punjab	−3·5	−3·4	+3·0	−1·3
North-West Frontier Province	−4·8	−4·3	+1·9	−2·4
Sind	−2·2	−1·9	+1·3	−0·9
Rajputana	−3·0	−3·8	+4·3	−0·8
Gujarat	−1·7	−3·0	+1·0	−1·2
Central India	−1·7	−4·1	+1·9	−1·3
Central Provinces	−1·4	−4·2	+1·1	−1·5
Berar	−1·3	−3·7	+3·4	−0·5
West Coast	−2·2	−2·5	−0·5	−1·7
Bombay Deccan	−2·4	−4·0	+1·8	−1·5
Hyderabad	−0·5	−1·6	+1·2	−0·3
Mysore	−0·3	−0·6	+0·8	0
Madras Coast	+2·3	+0·1	−1·1	+0·4
Madras Deccan	+1·0	−0·8	+0·4	+0·2
South India	+2·0	+0·2	+0·1	+0·8

(3) Mean daily temperature was practically normal in Burma, Madras, Mysore and Hyderabad and, more or less below the average over the rest of India. The deficiency exceeded 2° in amount over a large part of northern India, and was absolutely greatest in Bihar, where it averaged nearly 4½°:—

Province or Division.	Departure of mean temperature from normal in			
	March.	April.	May.	Period, March to May.
	°	°	°	°
Burma	−1·2	−1·9	+1·1	−0·7
Assam	−3·2	−4·1	−0·2	−2·5
Bengal	−3·6	−4·8	−1·7	−3·4
Orissa	−1·7	−3·4	−1·5	−2·2
Bihar	−4·2	−6·3	−2·7	−4·4
Chota Nagpur	−3·8	−6·0	−2·3	−4·0
United Provinces of Agra and Oudh.	−5·9	−6·0	−0·6	−4·2
Punjab	−6·6	−4·4	+2·5	−2·8
North-West Frontier Province	−7·1	−4·3	+1·7	−3·2
Sind	−4·5	−2·0	+2·4	−1·4
Rajputana	−5·5	−4·5	+4·3	−1·9
Gujarat	−4·0	−3·2	+1·8	−1·8
Central India	−4·2	−5·0	+2·1	−2·4
Central Provinces	−2·7	−4·7	+1·3	−2·0
Berar	−2·4	−3·5	+3·5	−0·8
West Coast	−2·0	−2·8	−0·7	−1·8
Bombay Deccan	−2·5	−2·9	+2·4	−1·0
Hyderabad	−0·9	−1·5	+1·0	−0·5
Mysore	+0·1	+0·5	+0·7	+0·4
Madras Coast	+1·4	+0·6	−1·4	−0·2
Madras Deccan	+0·4	−0·6	+0·5	+0·1
South India	+1·7	+0·7	−0·4	+0·2

It is noteworthy that, notwithstanding the protracted and unusually heavy snowfall, temperature was well above the normal in north-west India in May.

(4) Weather was as cool in Kashgar, Kashmir, Afghanistan, Baluchistan and Persia as in northern India, an indication that the condition was determined by general and not local actions.

Baghdad apparently marked the westerly limit of the zone of low temperature:—

Station.	Departure from normal of period, March to May.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Baghdad	+1·6	+0·2	+0·7
Ispahan	−3·2	−0·1	−1·7
Bushire	−2·1	−0·3	−1·2
Jask	−2·5	−1·2	−1·9
Chaman	−7·1	−4·2	−5·7
Quetta	−3·3	−2·5	−2·9
Kabul	−2·6	−4·1	−3·4
Gilgit	−4·6	−3·5	−4·1
Srinagar	−3·9	−1·9	−2·9
Kashgar	−3·0	−3·7	−3·4
Kailang	−6·5	−2·8	−4·7
Leh	−5·4	−3·1	−4·3

(5) Temperature increased at a much more rapid rate than usual in the first half of May in north-west India, and the highest temperatures of the year there were recorded during this period. The absolute maximum was as usual registered at Jacobabad, and was 1° higher than the highest previously recorded there in May.

In years of ordinary conditions the hot weather conditions in upper India do not attain their maximum intensity until about the fourth week in May, but in 1905, in spite of heavy snowfall, this point was reached considerably earlier than usual.

III.—The south-west monsoon period.—As is usually the case during this period, the departures of temperatures from the normal were related directly to the abnormalities of the rainfall distribution. The arrival of the monsoon was delayed considerably in Bengal and slightly on the West coast. The Arabian Sea current was very weak and unsteady up till August 21st, after which it improved partially. It was fairly vigorous during the next three weeks, and under the influence of a cyclonic storm gave much-needed rain over the tract of country lying between the Circars and the North-West Frontier Province in the second week of September. The current withdrew abruptly from practically the whole of its field on the 14th and 15th. The Bay current was fairly active until about the end of September, but was determined chiefly to Burma and northeast India.

(*a*) On the mean of the period temperature was higher than usual over the whole of India, excepting Burma and Assam, where it was in very slight defect. The excess accompanied less cloud and rain than the average, and as usual under these conditions was on the whole more marked in the day than in the night temperature:—

Province or Division.	Departure from normal of period, June to September.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Burma	−0·7	+0·5	−0·1
Assam	−0·4	−0·2	−0·3
Bengal	+0·4	+0·3	+0·4
Orissa	+2·0	+1·0	+1·5
Bihar	+0·2	+0·4	+0·3
Chota Nagpur	+2·3	+2·0	+2·2
United Provinces of Agra and Oudh	+2·4	+1·6	+2·0
Punjab	+2·3	+2·8	+2·6
North-West Frontier Province	+0·8	+1·7	+1·3
Sind	+1·5	0	+0·8
Rajputana	+4·1	+2·1	+3·1
Gujarat	+1·6	+0·8	+1·2
Central India	+2·5	+1·8	+2·2
Central Provinces	+2·1	+1·2	+1·7
Berar	+1·8	+1·5	+1·7
West Coast	+0·9	+0·8	+0·9
Bombay Deccan	+2·2	+0·7	+1·5
Hyderabad	+1·6	+1·5	+1·6
Mysore	+1·6	+0·4	+1·0
Madras Coast	+2·4	+1·1	+1·8
Madras Deccan	+2·1	+0·9	+1·5
South India	+0·9	+0·7	+0·8

(*b*) As might be expected from the continued deficiency of rain, the excess was not only greatest, but also persistent, throughout the period in the Punjab, Rajputana, Central India, Chota Nagpur, and the United Provinces.

(*c*) Temperature was on the mean of the period lower than usual in Kashmir and Baluchistan, the defect being greatest at the most elevated station of Leh, where it amounted to 2·8°, and

was, on the other hand, in excess of the normal in Persia, Afghanistan and Kashgar :—

Station.	Departure of mean temperature from normal in				
	June.	July.	August.	September.	Period, June to September.
	°	°	°	°	°
Baghdad	+3·3	+3·3	+2·0	+2·7	+2·8
Ispahan	+0·4	+1·0	+3·4	−0·7	+1·0
Bushire	0	−0·5	−0·7	−0·3	−0·4
Jask	−0·5	+0·9	+1·1	+0·3	+0·5
Chaman	−2·5	−1·3	−0·9	−4·0	−2·2
Quetta	−0·9	+0·1	+0·7	−1·6	−0·4
Kabul	−0·8	+1·3	+1·6	+2·6	+1·2
Gilgit	−4·1	−0·5	+0·5	−3·8	−2·0
Srinagar	−0·6	+1·1	+2·0	+0·3	+0·7
Kashgar	+0·8	−1·8	+2·5	+1·5	+0·8
Kailang	−1·8	−0·8	−0·1	−1·6	−1·1
Leh	−3·2	−3·6	−1·9	−2·4	−2·8

IV.—The retreating south-west monsoon period.—The monsoon current over the Bay retreated more quickly than usual and arrived in the south of the Peninsula on October 5th, five days before its usual date. It was very active during the next three weeks over the greater part of Burma, Eastern Bengal and Assam and the Peninsula, to the south of Lat. 15°, which areas accordingly received rainfall amounts much in excess of the normal. The current weakened materially towards the end of the month and showed much less than its normal rain-giving capacity until about the 6th of December, when it revived for a short period over the east of its field. Monsoon winds withdrew finally from the Bay on December 10th or 11th, *i.e.*, about their normal date. The cessation of the retreating monsoon rains was followed by unsettled conditions in Baluchistan, the Punjab and Kashmir. Two depressions of the cold weather type affected the weather in these areas during the second fortnight of December and caused frequent falls of rain and snow.

(1) Owing to the prevalence of finer weather than usual in the Peninsula, the daily maximum temperature was on the mean of the period from 1° to 2½° in excess, and the night temperature practically normal or in defect. Mean temperature was consequently normal over by far the greater part of the area.

(2) The departures from normal of maximum and minimum temperatures were generally small in amount, but opposite in character in Burma, Assam, Orrissa, Bihar, Chota Nagpur and the United Provinces. Mean temperature in these areas accordingly agreed very closely with the normal.

(3) Temperature was higher than usual, both by day and night, in the region, including Sind, Rajputana, Gujarat and Central India. In the Punjab and North-West Frontier Province the night temperature was above the normal throughout the period, and the day temperature in October and November, the defect of the latter in December being a result of the unsettled cloudy weather of the second half of the month :—

Province or Division.	Departure from normal of period, October to December.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Burma	−0·7	+1·1	+0·2
Assam	−0·6	+0·4	−0·1
Bengal	+0·5	+0·4	+0·5
Orissa	+0·4	−1·0	−0·3
Bihar	+0·3	−0·3	0
Chota Nagpur	+0·6	−0·3	+0·2
United Provinces of Agra and Oudh	+1·7	−0·1	+0·8
Punjab	+0·3	+2·3	+1·3
North-West Frontier Province	−0·6	+2·4	+0·9
Sind	+2·6	+2·9	+2·8
Rajputana	+2·5	+2·9	+2·7
Gujarat	+2·3	+1·8	+2·1
Central India	+2·6	+0·3	+1·5
Central Provinces	+1·3	−1·1	+0·1
Berar	+1·8	−1·2	+0·3
West Coast	+0·5	+0·5	+0·5
Bombay Deccan	+2·1	+0·9	+1·5
Hyderabad	+1·4	+0·2	+0·8
Mysore	+2·3	−0·2	+1·1
Madras Coast	+0·9	−0·2	+0·4
Madras Deccan	+1·7	+0·3	+1·0
South India	+1·0	−0·4	+0·3

(4) In regions beyond upper India temperature was unusually high in October and November, but fell below the normal in December, owing apparently to an early setting in

of the winter conditions. Kasghar was, however, unaffected by this change :—

Station.	Departures of mean temperature from normal in			
	October.	November.	December.	Period, October to December.
	°	°	°	°
Baghdad	+4·1	+3·0	−3·6	+1·2
Ispahan	+3·2	+2·4	−2·1	+1·2
Bushire	+0·5	+1·3	−2·5	−0·2
Jask	−0·7	+0·5	−0·7	−0·3
Chaman	+0·8	+1·2	+1·8	+0·1
Quetta	+1·8	+3·4	−0·7	+1·5
Kabul	+3·1?	+0·6	−7·4	−1·2?
Gilgit	+0·8	+1·2	−1·0	+0·3
Srinagar	+2·9	+1·4	−0·8	+1·2
Kashgar	+2·4	+1·5	+1·1	+1·7
Kailang	+0·6	+1·3	−4·0	−0·7
Leh	+0·4	+0·5	−1·5	−0·2

The year.—The more important abnormal features of the temperature conditions were—

(*a*) The decrease of temperature which had characterized the previous two years was maintained in 1905, which was on the average of the whole of the Indian land area cooler than 1904, and both were much cooler than any year subsequent to 1893. The fall since 1902 has amounted altogether to 1½° and since 1896, the hottest year on record, to 1¾°.

The important change that has occurred in the temperature conditions since 1902 is illustrated by the following table, giving the mean departure and progressive change of the mean actual temperature of the past 16 years :—

Year.	Number of stations.	Mean departure.	Progressive change.
		°	°
1890	85	+0·13	+0·73
1891	92	−0·63	−0·46
1892	74	+0·66	+0·69
1893	68	−1·33	−1·99
1894	66	+0·11	+1·44
1895	69	+0·35	+0·24
1896	67	+1·30	+0·95
1897	75	+0·90	−0·40
1898	75	+0·65	−0·25
1899	52	+0·78	+0·13
1900	50	+1·17	+0·39
1901	50	+0·63	−0·54
1902	49	+1·06	+0·43
1903	46	+0·18	−0·88
1904	46	−0·03	−0·21
1905	46	−0·42	−0·39

(*b*) The coolness occurred almost entirely during the first four months of the year, and was partly at least attributable to the occurrence of unusually heavy and prolonged snowfall of the period. Temperature was, on the other hand, steadily above the average during the succeeding seven months and practically normal in December :—

Month.	Departure from normal of mean temperature in		
	Extra-tropical India (from Table II).	Tropical India (from Table II).	Whole India (from Table II).
	°	°	°
January	−2·7	−0·4	−1·5
February	−7·5	−2·0	−4·7
March	−5·2	−1·2	−3·1
April	−4·2	−1·9	−3·0
May	+1·1	+0·9	+1·0
June	+3·9	+1·7	+1·8
July	+0·7	+0·9	+0·8
August	+1·5	+0·7	+1·1
September	+0·5	+0·4	+0·4
October	+1·0	+0·5	+0·7
November	+1·7	+1·3	+1·5
December	−0·5	0	−0·2
Whole year	−1·0	+0·1	−0·4

(*c*) The departures of temperature from the normal were in eleven of the twelve months of the same sign over tropical as in extra-tropical India. Since in ordinary years the temperature conditions in those two regions tend to vary in opposite directions, the similarity of the departures in 1905 would appear to indicate that more general actions were in operation than usual.

Atmospheric pressure.

Full information regarding the barometers in use at Indian observatories and of the methods of reducing the observations and obtaining the mean daily and monthly pressures will be found in the annual reports of previous years (*e.g.*, pages 58 and 59 of the report for 1890) and also in pages 9 and 10 of the monthly review for January, 1905.

In Table II of each monthly review the monthly mean daily pressure (corrected for temperature) is given in the sixth column and the departure from the normal in the seventh column. The normal monthly mean pressure values have been recalculated for all first and second class stations, data up to 1899 being utilized, and will be found in pages 66—69 of the "Indian Meteorological Memoirs," Vol. XVII. The departure data in the monthly reviews for the year 1905 were obtained by a comparison of the actual monthly means with these normals, and the departures of the monthly pressures of all first and second class stations in 1905 are given in Table XV. The figures in the sixth and seventh columns of Table II appended to the present Annual Summary, giving data of the mean pressure of the air and its departures from the normal for all first and second class stations, are comparable with the corresponding data of previous years published in the annual reports and summaries.

In the eighth column of Table II in each monthly review the mean pressures reduced to sea-level and corrected to constant gravity (Lat. 45) are given. These, it should be noted, are not directly comparable with the sea-level pressure values of the years 1875—90 as given in the annual reports for those years, for previous to 1891 no correction was made to reduce the monthly pressure means to standard gravity.

In Table I of each monthly review, and also in that appended to the Annual Summary, the pressure data are given for a fixed hour (*viz.*, 8 hrs. local time) of the day. The fourth column in that table gives the mean 8 hrs. pressures for the month corrected for temperature. In the fifth column are given the departures of these mean 8 hrs. pressures from the normal pressures.

TABLE XV.—*Departures from normal of monthly and annual mean pressures in 1905.*

Meteorological Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		"	"	"	"	"	"	"	"	"	"	"	"	"
Burma Coast and Bay Islands.	Port Blair	+·052	+·035	+·034	+·058	+·019	+·017	+·017	+·032	+·019	+·021	+·079	+·005	+·032
	Rangoon	+·026	−·009	+·014	+·032	+·012	−·031	−·011	+·016	−·012	−·012	+·068	−·011	+·007
	Diamond Island	+·023	+·008	+·014	+·043	+·005	−·018	−·007	+·020	−·002	−·007	+·068	−·016	+·011
	Akyab	+·017	+·021	+·007	+·057	+·013	−·026	−·015	+·034	−·007	−·008	+·067	−·013	+·012
Bengal and Orissa.	Chittagong	+·024	+·054	+·015	+·061	+·019	−·030	−·024	+·018	−·021	−·010	+·076	−·015	+·014
	Calcutta (Alipore)	+·018	+·069	+·015	+·082	+·044	−·020	−·015	+·019	−·029	−·009	+·057	−·030	+·017
	Saugor Island	+·009	+·051	−·005	+·070	+·022	−·034	−·027	+·018	−·032	−·009	+·033	−·019	+·006
	False Point	+·012	+·042	−·002	+·067	+·026	−·026	−·004	+·015	−·040	−·004	+·071	−·018	+·012
Gangetic Plain and Chota Nagpur.	Hazaribag	+·003	+·024	+·005	+·046	+·005	−·012	−·021	+·003	−·040	+·001	+·041	−·030	+·001
	Allahabad	+·017	+·061	+·029	+·075	+·013	−·006	+·003	+·008	−·022	−·019	+·040	−·029	+·014
Upper Sub-Himalayas.	Dehra Dun	+·014	+·036	+·003	+·043	+·011	−·006	−·033	−·016	−·017	−·018	+·030	−·035	+·001
	Roorkee	+·024	+·069	+·026	+·000	+·012	−·008	−·021	−·015	−·013	−·021	+·031	−·024	+·010
	Meerut	+·019	+·057	+·023	+·058	+·007	−·008	−·015	−·020	−·014	?	?	?	?
	Lahore	+·015	+·057	+·012	+·061	−·004	−·014	−·030	−·035	−·023	−·016	+·033	−·031	+·002
	Ludhiana	+·014	+·057	+·012	+·062	+·007	−·008	−·020	−·033	−·035	−·023	+·025	−·037	+·002
Indus Valley and North-West Rajputana.	Peshawar	−·009	+·042	−·006	+·056	+·008	−·008	−·029	−·023	−·015	−·023	+·043	−·016	+·002
	Jacobabad	+·041	+·073	+·026	+·050	+·005	+·007	−·044	−·043	−·044	−·065	+·014	−·014	+·001
	Kurrachee	+·044	+·069	+·025	+·059	+·008	+·035	−·011	+·028	−·002	−·012	+·038	−·018	+·022

TABLE XV.—*Departure from normal of monthly and annual mean pressures in 1905*—concld.

Meteorological Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
East Rajputana, Central India and Gujarat.	Jaipur	+·007	+·044	+·010	+·057	+·010	+·022	−·007	+·006	−·017	−·006	+·045	−·020	+·013
	Deesa	+·022	+·055	+·021	+·054	−·005	+·041	−·014	+·029	−·003	−·008	+·050	0	+·020
Deccan.	Belgaum	+·014	+·010	+·011	+·044	+·010	+·034	+·032	+·017	−·002	−·001	+·055	+·001	+·019
	Sholapur	−·000	+·006	+·001	+·043	−·003	+·024	+·016	+·021	−·013	−·005	+·062	−·001	+·013
	Akola	+·013	+·034	+·011	+·057	−·011	+·028	+·011	+·027	0	0	+·059	−·014	+·018
	Buldana	−·033	−·015	−·025	+·021	−·018	+·022	−·003	+·010	−·019	−·011	+·044	−·022	−·004
	Khandwa	+·011	+·041	+·012	+·051	−·008	+·023	+·005	+·027	−·010	0	+·052	−·005	+·017
	Nagpur	+·017	+·039	+·010	+·073	+·007	+·015	+·019	+·031	−·004	+·017	+·077	−·001	+·025
	Hdyerabad (Deccan)	+·011	+·038	−·010	+·035	+·008	+·017	+·020	+·023	−·001	+·011	+·071	−·008	+·018
West Coast.	Bombay	+·032	+·034	+·034	+·059	+·005	+·052	+·022	+·022	+·004	−·009	+·043	+·001	+·025
	Karwar	+·045	+·018	+·035	+·067	+·014	+·040	+·036	+·021	+·007	+·004	+·054	+·010	+·029
South India.	Salem	+·015	−·018	−·010	+·037	+·002	+·015	+·011	−·002	−·009	−·004	+·059	+·004	+·008
	Chitaldroog	+·016	+·006	+·009	+·036	+·003	+·038	+·023	+·016	−·003	−·005	+·041	−·007	+·014
	Bangalore	+·008	−·003	+·004	+·040	+·011	+·016	+·022	+·007	−·006	−·003	+·057	−·002	+·013
	Hassan	+·023	+·012	+·020	+·050	+·018	+·050	+·047	+·026	+·011	+·005	+·045	+·002	+·026
	Mysore	+·006	+·003	+·005	+·031	−·003	+·033	+·029	+·010	−·006	−·010	+·035	−·014	+·010
	Madras	+·019	−·004	−·011	+·046	+·020	+·001	+·007	−·002	−·012	+·001	+·063	+·001	+·011
	Bellary	−·001	−·012	−·005	+·023	−·015	+·002	0	−·001	−·024	−·015	+·045	−·021	−·002
	Waltair	+·024	+·017	+·013	+·071	+·036	−·003	+·023	+·029	−·021	+·004	+·083	−·004	+·023
Hill Station Baluchistan.	Quetta	−·030	−·025	−·028	+·023	?	+·019	−·001	+·016	+·008	+·001	+·052	−·030	?
Hill Stations, Northern India.	Leh	−·098	−·141	−·145	0	+·058	+·022	−·002	−·013	+·002	+·010	+·024	−·064	−·029
	Srinagar	−·083	−·05	−·064	+·017	+·029	+·019	−·023	−·001	+·001	−·007	+·030	−·040	−·015
	Simla (Ridge)	−·041	−·063	−·071	+·004	+·031	+·011	−·004	+·008	−·009	−·006	+·043	−·042	−·012
	Chakrata	−·059	−·060	−·058	−·001	+·024	+·010	−·005	+·002	+·002	−·005	+·041	−·044	−·009
	Ranikhet	−·019	−·039	−·040	+·015	+·017	0	−·016	−·006	−·008	−·005	+·037	−·033	−·008
	Katmandu	0	+·018	−·012	+·048	+·038	+·004	+·012	+·016	+·002	+·010	+·057	−·016	+·014
	Darjeeling	−·043	−·060	−·062	−·009	+·024	−·012	−·009	−·002	−·010	−·029	+·024	−·046	−·019
Hill Stations, Central India.	Mount Abu	−·019	−·011	−·034	+·027	+·021	+·036	−·018	+·025	−·007	−·003	+·052	−·010	+·005
	Pachmarhi	−·028	−·024	?	?	?	?	?	?	−·024	+·006	+·067	−·004	?
	Chikalda	−·040	−·030	−·035	+·018	+·001	+·039	0	+·018	−·023	+·003	+·049	−0·34	−·003
Extra Indian Stations.	Aden	+·017	+·028	−·023	+·031	+·027	+·046	+·037	+·019	−·013	−·019	+·033	−·010	+·014
	Perim	+·028	+·061	0	+·046	+·028	+·059	+·031	+·018	+·024	−·003	+·040	−·003	+·027
	Zanzibar	+·022	+·026	+·023	+·029	−·006	−·029	?	−·018	−·054	−·030	−·034	−·054	?
	Port Victoria (Seychelles.)	+·024	+·021	+·019	+·036	−·005	+·029	−·009	−·007	−·012	+·006	+·023	−·018	+·009
	Mauritius	−·036	+·021	−·048	+·034	+·026	−·007	−·022	−·003	−·048	−·016	−·005	−·039	−·012

The following tables give summaries of the pressure departure data according to the two groups of divisions employed in the corresponding tables of temperature departure data, that is, for the sixteen divisions for which the departure data were given in the "Geographical Summaries" in the annual reports previous to 1891 and the eleven meteorological provinces in Table I of each monthly review:—

TABLE XVI.—*Geographical summary of the pressure departure data of Table II in the Monthly Weather Reviews of 1905.*

Meteorological Provinces.	Number of stations.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		"	"	"	"	"	"	"	"	"	"	"	"	"
North-West Himalayas	5	−·050	−·071	−·076	+·097	+·032	+·012	−·010	−·002	−·002	−·003	+·035	−·045	−·014
Sikkim Himalayas and Nepal.	2	−·022	−·021	−·037	+·020	+·031	−·004	+·002	+·004	−·004	−·005	+·041	−·031	−·002
Punjab Plains	3	+·007	+·052	+·006	+·060	+·004	−·010	−·026	−·030	−·024	−·021	+·034	−·028	+·002
Gangetic Plain	3·4	+·019	+·056	+·020	+·059	+·011	−·007	−·017	−·011	−·017	−·019	+·034	−·029	+·008
Western Rajputana	4	+·022	+·047	+·010	+·048	+·007	+·030	−·022	+·010	−·014	−·022	+·039	−·011	+·012
Eastern Rajputana and Central India.	1	+·007	+·044	+·010	+·057	+·010	+·022	−·007	+·006	−·017	−·006	+·045	−·020	+·013
Nerbudda Valley	1	+·011	+·041	+·012	+·051	−·008	+·023	+·005	+·027	−·010	0	+·052	−·005	+·017
Chota Nagpur	1	+·003	+·024	−·005	+·046	+·005	−·012	−·021	+·003	−·040	+·001	+·041	−·030	+·001
Lower Bengal	2	+·014	+·060	+·005	+·076	+·033	−·027	−·021	+·019	−·031	−·009	+·045	−·025	+·012
Orissa	1	+·012	+·042	−·002	+·067	+·026	−·026	−·004	+·015	−·040	−·004	+·071	−·018	+·012
Central Provinces (South) and Berar.	4·5	−·014	+·001	−·010	+·042	−·005	+·026	+·007	+·022	−·014	+·003	+·059	−·015	+·009
Konkan	2	+·039	+·026	+·035	+·063	+·010	+·046	+·029	+·022	+·006	−·003	+·049	+·006	+·027
Deccan, Hyderabad and Mysore.	8	+·010	+·008	+·004	+·038	+·004	+·027	+·024	+·015	−·006	−·003	+·051	−·006	+·014
East Coast and Carnatic.	3	+·019	−·002	−·003	+·038	+·019	+·004	+·014	+·008	−·014	0	+·068	0	+·014
Arakan and Pegu	4	+·023	+·019	+·013	+·048	+·012	−·026	−·014	+·022	−·011	−·009	+·070	−·014	+·011
Bay Islands	1	+·052	+·035	+·034	+·058	+·019	+·017	+·017	+·032	+·019	+·021	+·079	+·005	+·032
Extra-Tropical India	22-23	−·003	+·017	−·013	+·043	+·016	+·004	−·015	−·001	−·015	−·012	+·038	−·027	+·003
Tropical India	23-24	+·012	+·011	+·006	+·046	+·008	+·013	+·012	+·018	−·009	−·001	+·060	−·008	+·014
Whole India	46-47	+·005	+·014	−·003	+·045	+·012	+·009	−·002	+·008	−·012	−·006	+·050	−·017	+·009

TABLE XVII.—*Departure of the mean monthly pressure from the normal in the eleven meteorological provinces of India in 1905.*

Meteorological Province.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	"	"	"	"	"	"	"	"	"	"	"	"	"
Burma Coast and Bay Islands	+·030	+·019	+·024	+·042	+·018	−·024	+·001	+·023	+·001	+·001	+·079	−·010	+·017
Burma Inland	+·036	+·044	+·028	+·054	+·024	−·048	−·018	+·011	−·018	−·004	+·061	−·029	+·012
Assam	+·011	+·053	+·004	+·083	+·040	−·034	−·024	−·002	−·014	+·014	+·051	−·031	+·010
Bengal and Orissa	+·019	+·063	+·017	+·080	+·044	−·028	−·017	+·013	−·024	−·008	+·065	−·023	+·017

TABLE XVII.—*Departure of the mean monthly pressure from the normal in the eleven meteorological provinces of India in 1905*—concld.

Meteorological Province.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	"	"	"	"	"	"	"	"	"	"	"	"	"
Gangetic Plain and Chota-Nagpur.	+ ·013	+ ·063	+ ·022	+ ·078	+ ·029	— ·020	— ·014	— ·001	— ·031	— ·011	+ ·043	— ·029	+ ·012
Upper Sub-Himalayas . .	+ ·012	+ ·053	+ ·015	+ ·067	+ ·019	— ·010	— ·019	— ·018	— ·015	— ·008	+ ·048	— ·026	+ ·010
Indus Valley and North-West Rajputana.	+ ·020	+ ·066	+ ·012	+ ·062	+ ·009	+ ·017	— ·020	— ·005	— ·012	— ·006	+ ·046	— ·020	+ ·014
East Rajputana, Central India and Gujarat.	+ ·015	+ ·053	+ ·019	+ ·058	+ ·013	+ ·049	+ ·003	+ ·029	+ ·002	0	+ ·055	— ·009	+ ·024
Deccan	+ ·009	+ ·035	+ ·006	+ ·054	+ ·005	+ ·033	+ ·009	+ ·021	— ·009	+ ·002	+ ·063	— ·007	+ ·018
West Coast	+ ·035	+ ·023	+ ·029	+ ·054	+ ·005	+ ·039	+ ·024	+ ·014	— ·001	— ·008	+ ·047	+ ·003	+ ·023
South India	+ ·023	+ ·017	+ ·010	+ ·044	+ ·014	+ ·018	+ ·019	+ ·012	— ·005	+ ·001	+ ·064	+ ·001	+ ·018

I.—The cold weather period.

(*a*) The mean 8 hrs. pressure of the Indian land area was higher than usual, the excess averaging ·019″ in January and ·043″ in February. The pressure conditions of the period at the level of the plains were thus more abnormal than in the corresponding season of the previous year, when the mean departure was only + ·009.″

(*b*) The local features of the pressure distribution were opposite in the two months and were of no significance:—

Province or Division.	Excess of pressure departure over geographical mean of India.		
	January.	February.	Period, January and February.
	"	"	"
Burma	+ ·010	— ·016	— ·003
Assam	— ·008	+ ·010	+ ·001
Bengal	+ ·002	+ ·022	+ ·012
Orissa	— ·008	+ ·004	— ·002
Bihar	— ·006	+ ·026	+ ·010
Chota Nagpur	— ·016	— ·003	— ·010
United Provinces of Agra and Oudh .	— ·003	+ ·021	+ ·009
Punjab	— ·005	+ ·025	+ ·010
North-West Frontier Province .	— ·021	+ ·005	— ·008

Province or Division.	Excess of pressure departure over geographical mean of India.		
	January.	February.	Period, January and February.
	"	"	"
Sind	+ ·020	+ ·029	+ ·025
Rajputana	— ·008	+ ·012	+ ·002
Gujarat	+ ·003	+ ·014	+ ·009
Central India	— ·012	+ ·004	— ·004
Central Provinces	— ·012	— ·004	— ·008
Berar	— ·004	+ ·005	+ ·001
West Coast	+ ·016	— ·020	— ·002
Bombay Deccan	— ·007	— ·017	— ·012
Hyderabad	— ·012	— ·017	— ·015
Mysore	— ·001	— ·030	— ·016
Madras Coast	+ ·009	— ·020	— ·006
Madras Deccan	— ·010	— ·033	— ·022
South India	+ ·008	— ·022	— ·011

(*c*) Pressure was however largely below the normal at the level of the hill stations, in other words the vertical gradients were much steeper than usual. This condition was, it may be noted, initiated in the month of November 1904 and

was as usual associated with unusually wet weather :—

Pair of stations.	Departure from normal of vertical pressure differences.		
	January.	February.	Period, January and February.
	"	"	"
Labore and Leh	+·120	+·195	+·158
Jacobabad and Quetta	+·072	+·096	+·084
Peshawar and Murree	+·035	+·074	+·055
Ludhiana and Simla	+·057	+·133	+·095
Roorkee and Chakrata	+·051	+·124	+·088
Bareilly and Ranikhet	+·047	+·110	+·079
Dhubri and Darjeeling	+·042	+·101	+·072
Deesa and Mount Abu	+·034	+·066	+·050
Hoshangabad and Pachmarhi	+·043	+·065	+·054
Coimbatore and Wellington	+·009	—·001	+·004

(*d*) The excess of pressure in the plains of India apparently extended westwards to Baghdad, and southwards to Seychelles and Zanzibar, but was replaced by a slight defect at Mauritius :—

Station.	Departure of pressure from normal in		
	January.	February.	Period, January and February.
	"	"	"
Mauritius	—·036	+·021	—·008
Seychelles	+·024	+·021	+·023
Zanzibar	+·016	+·030	+·023
Aden	+·024	+·035	+·030
Perim	+·037	+·064	+·051
Baghdad	+·043	+·080	+·062
Bushire	—·006	+·060	+·027
Jask	—·040	+·037	—·002
Muscat	—·005	+·045	+·020
Kashgar	—·169	—·043	—·106

II.—*The hot weather period.*

(*a*) Pressure was above the normal during the whole of the period, and more so in April, when the excess averaged ·059″.

Month.	Departure from normal of mean 8 hrs. pressure
	"
March	+·015
April	+·059
May	+·019

(*b*) As in the previous period, the excess of pressure extended over a much larger area than India.

Station.	Departure of pressure from normal in			
	March.	April.	May.	Period March to May.
	"	"	"	"
Mauritius	—·048	+·034	+·026	+·004
Seychelles	+·019	+·036	—·005	+·017
Zanzibar	+·032	+·024	—·016	+·013
Aden	—·009	+·037	+·029	+·020
Perim	+·012	+·060	+·034	+·035
Baghdad	—·107	—·026	+·025	—·036
Bushire	—·005	+·037	+·060	+·031
Jask	—·020	+·018	0	—·001
Muscat	+·012	+·035	+·030	+·026
Kashgar	—·076	—·055	+·005	—·042

(*c*) The local features of the pressure distribution were similar to those of the previous period, that is, pressure was locally in excess over the greater part of northern India and in defect in the Peninsula :—

Province or division.	Excess of pressure departure over geographical mean of India.			
	March.	April.	May.	Period, March to May.
	"	"	"	"
Burma	+·009	—·013	+·001	—·001
Assam	—·021	+·024	+·021	+·018
Bengal	+·004	+·021	+·025	+·017
Orissa	—·007	+·010	+·022	+·008
Bihar	+·004	+·029	+·018	+·017
Chota Nagpur	—·011	+·017	+·003	+·003

Province or division.	Excess of pressure departure over geographical mean of India.			
	March.	April.	May.	Period, March to May.
	"	"	"	"
United Provinces of Agra and Oudh.	+·008	+·009	+·008	+·008
Punjab	—·002	+·005	—·007	—·001
North-West Frontier Province	—·017	—·006	—·011	—·011
Sind	+·006	+·001	—·006	0
Rajputana	—·004	0	—·002	—·002
Gujarat	+·015	0	—·011	+·001
Central India	—·002	+·003	—·006	—·002
Central Provinces	—·016	+·003	—·011	—·008
Berar	—·005	+·003	—·018	—·007
West Coast	+·014	—·004	—·014	+·001
Bombay Deccan	—·002	—·015	—·018	—·012
Hyderabad	—·006	—·016	—·010	—·011
Mysore	—·001	—·024	—·019	—·015
Madras Coast	—·006	—·008	+·009	—·002
Madras Deccan	—·006	—·022	—·019	—·016
South India	—·007	—·017	—·011	—·012

(*d*) The vertical pressure gradient was unusually steep in March and April, which were very wet months, but disappeared or was reversed in May:—

Pair of stations.	Departure from normal of vertical pressure differences.			
	March.	April.	May.	Period, March to May.
	"	"	"	"
Lahore and Leh	+·156	+·076	—·056	+·059
Jacobabad and Quetta	+·051	+·030	...	...
Peshawar and Murree	+·073	+·040	—·020	+·031
Ludhiana and Simla	+·084	+·065	—·022	+·042
Roorkee and Chakrata	+·084	+·081	+·009	+·058
Bareilly and Ranikhet	+·066	+·060	+·003	+·043
Dhubri and Darjeeling	+·065	+·091	+·022	+·059
Deesa and Mount Abu	+·056	+·030	—·019	+·022
Coimbatore and Wellington	—·003	+·011	+·001	+·003

III.—The south-west monsoon period.—(*a*) Pressure was very unsteady over the Indian land area during this period. Thus it was in slight excess in June and August, practically normal in July and slightly below the normal in September:—

Month.	Departure from normal of mean 8-hrs. pressure.
	"
June	+·007
July	—·001
August	+·010
September	—·011

(*b*) Pressure was persistently in defect over the greater part of northern India and in excess in the Peninsula, Central India, Gujarat and Rajputana:—

Province or division.	Excess of pressure departure over geographical mean of India.				
	June.	July.	August.	September.	Period, June to September.
Burma	—·040	—·007	+·009	+·004	—·009
Assam	—·041	—·023	—·012	—·003	—·020
Bengal	—·035	—·020	+·002	—·011	—·016
Orissa	—·033	—·003	+·013	—·020	—·011
Bihar	—·042	—·019	—·017	—·027	—·026
Chota Nagpur	—·025	—·012	+·002	—·031	—·016
United Provinces of Agra and Oudh.	—·017	+·007	—·016	—·006	—·012
Punjab	—·014	—·022	—·033	—·004	—·018
North-West Frontier Province	—·018	—·029	—·030	—·010	—·024
Sind	+·025	—·023	—·010	—·001	—·007
Rajputana	+·035	0	+·015	+·005	+·014
Gujarat	+·036	+·002	+·024	+·018	+·025
Central India	+·026	+·006	+·011	+·002	+·011
Central Provinces	+·017	+·007	+·011	—·009	+·007
Berar	+·033	+·013	+·018	+·005	+·017
West Coast	+·032	+·025	+·004	+·012	+·018
Bombay Deccan	+·039	+·014	+·012	+·013	+·020
Hyderabad	+·037	+·016	+·006	+·005	+·015
Mysore	+·022	+·018	+·001	+·010	+·013
Madras Coast	—·001	+·022	+·007	+·001	+·007
Madras Deccan	+·017	+·015	—·002	—·001	+·007
South India	+·018	+·022	—·002	+·015	+·031

(*c*) The vertical pressure gradient was of almost its average intensity, except in upper India and Baluchistan, where it was feebler than usual:—

Pair of stations.	Departure from normal of vertical pressure differences.				
	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"
Lahore and Leh	−·035	−·036	−·040	−·030	−·035
Jacobabad and Quetta	−·003	−·044	−·048	−·045	−·035
Peshawar and Murree	−·024	−·030	−·024	−·013	−·023
Ludhiana and Simla	−·027	−·027	−·038	−·024	−·029
Roorkee and Chakrata	−·015	−·005	−·011	−·007	−·010
Bareilly and Ranikhet	−·018	+·008	−·001	−·004	−·004
Dhubri and Darjeeling	−·010	−·011	+·011	+·001	−·002
Deesa and Mount Abu	+·015	+·006	+·008	+·004	+·008
Hoshangabad and Pachmarhi	...	...	...	+·019	...
Coimbatore and Wellington	+·006	−·001	−·05	−·004	−·001

(*d*) There were no persistent abnormal features in the pressure conditions of Persia and Arabia, where pressure varied irregularly from the normal from month to month. At Zanzibar and Mauritius, on the other hand, pressure was below the normal throughout the period by amounts averaging ·035" and ·020," respectively:—

Station.	Departure of pressure from normal in				
	June.	July.	August.	September.	Period, June to September
	"	"	"	"	"
Mauritius	−·007	−·022	−·003	+·048	−·020
Seychelles	+·029	−·009	−·007	−·012	0
Zanzibar	−·038	−·015	−·028	+·058	−·035
Aden	+·050	−·008	+·002	−·016	+·007
Perim	+·055	+·025	+·006	+·021	+·027
Baghdad	+·029	+·001	−·035	−·037	−·011
Bushire	+·053	−·005	+·020	−·004	+·016
Jask	+·027	−·045	−·005	−·007	−·008
Muscat	+·043	−·029	+·016	+·003	+·007
Kashgar	−·045	−·013	−·057	+·037	−·038

(*e*) The monsoon trough of low pressure occupied a more northerly position than usual in June and July, during which period the rainfall due to the Bay current was restricted mainly to Burma and north-east India; in the succeeding two months its position was very nearly normal.

IV.—The retreating monsoon period.—

(*a*) The pressure conditions were as unsteady in this as during the previous period. Thus pressure was in defect in October by ·003", above the normal in November by ·057" and in defect in December by ·013". Both the excess and defect were common to the whole of the Indian area and were apparently due to general rather than local actions.

(*b*) The local features of the pressure conditions were not strongly marked, though there was a slight deficiency of pressure in Burma and northern India relatively to the Peninsula. This distribution was as usual associated with a diversion of the retreating current to Burma and north-east India:—

Province or division.	Excess of pressure departure over geographical mean of India.			
	October.	November.	December.	Period, October to December.
	"	"	"	"
Burma	+·001	+·015	−·005	+·004
Assam	−·014	−·066	−·018	−·012
Bengal	−·008	+·006	−·012	−·005
Orissa	−·002	+·015	−·003	+·003
Bihar	−·007	−·014	−·019	−·013
Chota Nagpur	+·005	−·001	−·013	−·006
United Provinces of Agra and Oudh	−·008	−·014	−·014	+·012
Punjab	−·004	−·008	−·009	−·007
North-West Frontier Province	+·027	−·015	−·015	−·016
Sind	+·003	−·016	−·003	+·005
Rajputana	+·009	−·003	−·005	0
Gujarat	+·001	−·003	+·009	+·002
Central India	+·005	−·001	+·001	+·002
Central Provinces	+·008	+·011	+·003	+·007
Berar	+·008	+·010	+·005	+·008
West Coast	−·001	−·010	+·016	+·002
Bombay Deccan	+·001	+·006	+·016	+·008
Hyderabad	+·007	−·002	+·001	+·002
Mysore	0	−·007	+·009	+·001
Madras Coast	+·006	+·015	+·016	+·012
Madras Deccan	−·001	−·005	−·003	−·003
South India	+·005	+·020	+·027	+·014

(*c*) The vertical pressure gradient was feebler than usual in October, but strengthened materially during the next two months: —

Pair of stations.	Departure from normal of vertical pressure differences.			
	October.	November.	December.	Period, October to December.
	"	"	"	"
Lahore and Leh	—·026	+·013	+·036	+·007
Jacobabad and Quetta	·0	—·006	+·029	+·008
Peshawar and Murree	—·025	—·009	+·016	—·006
Ludhiana and Simla	—·013	—·006	+·015	—·001
Roorkee and Chakrata	·010	+·005	+·005	0
Bareilly and Ranikhet	—·012	+·002	+·002	—·003
Dhubri and Darjeeling	—·006	+·034	+·021	+·016
Deesa and Mount Abu	—·001	—·010	—·002	—·004
Hoshangabad and Pachmarhi	—·003	—·009	+·006	—·002
Coimbatore and Wellington	—·002	+·008	+·009	+·005

(*d*) Pressure was apparently lower than usual at Mauritius, Zanzibar and some of the stations in Arabia and Persia. Baghdad and Perim were apparently beyond the limits of this area of low pressure: —

Station.	Departure of pressure from normal, in			
	October.	November.	December.	Period, October to December.
	"	"	"	"
Mauritius	—·016	—·005	—·039	—·020
Seychelles	+·006	+·023	—·018	+·004
Zanzibar	—·030	—·025	—·045	—·033
Aden	—·012	+·020	—·014	—·002
Perim	0	+·033	+·005	+·013
Baghdad	—·008	+·042	+·007	+·014
Bushire	—·028	+·030	—·027	—·008
Jask	—·001	+·005	—·033	—·016
Muscat	—·023	+·017	—·038	—·015
Kashgar	—·008	+·023	—·116	—·034

The year.—

(*a*) The mean pressure of the year (as determined from 10 and 16 hours observations) was ·009″ higher than usual. The excess was on the whole much more marked in tropical than in extra-tropical India. The only areas in which the mean pressure of the year exceeded the normal by more than ·020″ were the Bay Islands (+·032″) and Konkan (+·027″).

(*b*) Opposite conditions prevailed at the level of the hill stations, pressure being ·014″ in defect in the North-West Himalayas and ·002″ in defect in the Sikkim Himalayas and Nepal; the vertical gradients were accordingly steeper than usual: —

Pair of stations.	Departure from normal of vertical pressure differences.
	"
Lahore and Leh	+·030
Jacobabad and Quetta	+·013
Peshawar and Murree	+·008
Ludhiana and Simla	+·017
Roorkee and Chakrata	+·026
Bareilly and Ranikhet	+·022
Dhubri and Darjeeling	+·030
Deesa and Mount Abu	+·017

(*c*) There was more or less excess in seven months and a defect in five; the greatest excess occurred in April, the last month of heavy snowfall and persistent low temperature, and again in November, in which month temperature was, however, 1½° higher than usual. The table below gives the mean monthly departures from normal of the pressure of the whole Indian land area: —

Month.	Departure from normal of mean pressure in		
	Extra-tropical India.	Tropical India.	Whole India.
	"	"	"
January	—·003	+·012	+·005
February	+·017	+·011	+·014
March	—·013	+·006	—·003
April	+·043	+·046	+·045
May	+·016	+·008	+·012
June	+·004	+·013	+·009
July	—·015	+·012	—·002
August	—·001	+·018	+·008
September	—·015	—·009	—·012
October	—·012	—·001	—·006
November	+·038	+·060	+·050
December	—·027	—·008	—·017
Whole year	+·003	+·014	+·009

(*d*) Pressure was on the mean of the year in excess at Aden, Perim and the Seychelles, and in defect at Mauritius. Below are given the departures and progressive changes of pressure in the Indian land area during the past 31 years:—

Year.	Number of stations.	Mean pressure.	Progressive variation.
		"	"
1875	33	—·007	
1876	35	—·007	0
1877	59	+·032	+·039
1878	65	+·002	—·030
1879	81	—·014	—·016
1880	93	—·003	+·011
1881	93	+·002	+·005
1882	93	—·010	—·012
1883	105	—·005	+·005
1884	107	+·010	+·015
1885	113	+·014	+·004
1886	118	—·003	—·017
1887	117	—·006	—·003
1888	109	+·021	+·027
1889	76	+·004	—·007
1890	77	—·009	—·013
1891	72	+·010	+·019
1892	72	—·022	—·032
1893	66	—·001	+·021
1894	66	—·012	—·011
1895	66	+·003	+·015
1896	68	—·001	—·004
1897	74	—·005	—·004
1898	74	—·018	—·013
1899	51	+·004	+·022
1900	49	+·010	+·006
1901	47	+·005	—·005
1902	46	+·011	+·006
1903	46	+·001	—·010
1904	46	—·003	—·004
1905	46	+·009	+·012

The statement of the more important cyclonic storms formed in India and the Indian seas in 1905 will be printed in the Annual Summary of 1906.

Winds.

The mean direction of the wind and the mean diurnal movement of the air, as measured by Robinson anemometers, are given for all second class stations in Table II in each monthly review. The normal values are also stated for the sake of ready comparison. The normal data of these elements, utilized in Table II of the monthly weather reviews of the year 1905, will be found in a collected form in Tables XXII, XXVI and XXVII of Vol. XVII of Indian Meteorological Memoirs. The mean 8 hrs. wind directions for each month are laid down in the first chart in each monthly review. They are calculated in the usual manner by finding the resultant of equal winds in the directions actually observed at 8 hrs. and given in Table I in each monthly review. As a general rule, the mean 8 hrs. wind directions vary little from the mean wind directions (calculated from the 10 and 16 hrs. wind data) in Table II of the monthly reviews, but in some cases and at certain seasons of the year they differ very considerably.

The chief features of the air movement over India in 1905 have been described in the monthly reviews of the year. The following is a summary of the more important features for each period:—

I. The cold weather period.—

(*a*) The air movement was feebler than usual over the greater part of the plains of India, the feebleness being on the whole most marked in the Indus Valley.

(*b*) The direction of air motion was abnormally westerly in upper India, an indication of a greater influx than usual of dry air from the highlands of Afghanistan and Baluchistan. A similar deflection of wind was shown in Kashmir at Leh and Srinagar.

(*c*) Land winds held steadily through February at the head of the Bay, where in normal years sea breezes set in during the third week of the month.

(*d*) The air movement was very unsteady over the south and centre of the Peninsula. It was on the whole more southerly in the former and more westerly than usual in the latter area.

(*e*) Although weaker than usual over the land area, the winter monsoon blew with more than its normal intensity in the Bay of Bengal and Arabian Sea:—

Area.	Departure of mean daily force of wind (Beaufort's notation) in			Normal mean strength of wind during period.
	January.	February.	Period, January and February.	
Bay of Bengal	3·0	2·9	3·0	2·8
Arabian Sea	3·3	3·3	3·4	3·2

II. The hot weather period.—The more important abnormal features were :—

(*a*) Winds were unusually steady, but below their normal strength over a large part of the country, owing probably to the long delay in the establishment of the hot weather conditions.

(*b*) Winds were throughout the period more southerly than usual on the Bengal and Orissa coasts, indicating a partial diversion from Assam to Bengal, of the usual influx of damp air from the head of the Bay.

(*c*) Very irregular winds prevailed on the Burma coast during May, so that the ordinary inflow of air across that coast was greatly interrupted and less extensive than usual.

(*d*) The air movement was very unusual during March and April over the part of the equatorial belt represented by the Seychelles:—

Station.	Wind Direction.			
	March.		April.	
	Actual.	Normal.	Actual.	Normal.
	°	°	°	°
Seychelles	N 4 E	N 21 W	N 14 W	S 63 E

These data would appear to indicate that the belt of light variable airs which is a characteristic feature of the meteorology of the equatorial region lay to the south of the position of the Seychelles instead of to its north which is ordinarily the case in April. According to the information furnished by a few vessels traversing those seas the northward extension of the trades was taking place more slowly than usual, their northern limit during the first half of May being from 200 to 300 miles to the south of the normal position.

III. The south-west monsoon period.—As already mentioned, the advance of the monsoon currents over the Indian Seas occurred later than usual; more especially was this the case over the north of the Bay of Bengal, where monsoon conditions did not set in until about the end of June. The Arabian Sea monsoon as a rain-giving current was weak throughout the period and withdrew suddenly from practically the whole of its field on September 14th. The Bay current was on the whole up to its average intensity, but its activity was displayed more largely in the eastern than the western half of its field.

(*a*) Over the region usually dominated by the Arabian Sea current, the air movement was of about its normal strength in July and weaker than usual in the other three months. Since the precipitation in this area was as largely below the normal in July as in June and August, it is clear that there was no correspondence between the departures of rainfall and those of the air movement. In the area swept by the Bay current, on the other hand, the air motion was 25 per cent. above its normal intensity in the coast districts and practically normal in the interior :—

Month.	Percentage departure from normal of mean daily air movement.			
	Bay of Bengal current.		Bombay current.	
	Four coast stations.	Four inland stations.	Four coast stations.	Four inland stations.
June	+15	−13	−16	0
July	+25	− 5	+ 2	+2
August	+27	−12	− 2	−9
September	+33	+20	− 5	−8
Mean	+25	− 3	− 5	−4

(*b*) Winds were more westerly than usual at Port Blair and Diamond Island, indicating a stronger determination than usual of the current to Burma :—

Station.	Wind Direction.							
	June.		July.		August.		September.	
	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.
	°	°	°	°	°	°	°	°
Port Blair	S 59 W	S 45 W	S 47 W	S 48 W	S 62 W	S 51 W	S 57 W	S 54 W
Diamond Island.	S 66 W	S 56 W	S 44 W	S 42 W	S 53 W	S 44 W	S 51 W	S 45 W

(*c*) The middle portion of the trough of low pressure lay over the north of the Gangetic plain from June to August, and in consequence the westerly

current reached much further north than usual :—

Station.	WIND DIRECTION.					
	June.		July.		August.	
	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.
	°	°	°	°	°	°
Hazaribagh . .	N 41 W	S 42 W	N 75 W	S 6 E	S 78 W	S 9 W
Allahabad . . .	N 49 W	N 10 W	N 66 W	N 75 E	N 62 W	N 6 E

(*d*) The air movement was very abnormal in direction in the east Punjab and the adjacent districts of the United Provinces, where on the whole winds were abnormally westerly :—

Station.	WIND DIRECTION.							
	June.		July.		August.		September.	
	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.
	°	°	°	°	°	°	°	°
Lahore .	S 75 W	N 18 E	S 40 E	S 78 E	S 16 W	S 78 E	S 84 W	N 46 E
Ludhiana .	N 37 W	S 54 W	N 78 W	S 36 E	N 77 W	S 60 E	N 76 W	N 44 W
Meerut . .	N 59 W	N 18 W	S 20 W	S 69 E	S 84 W	S 48 E	N 66 W	N 54 W
Roorkee .	S 78 W	S 12 E	S 36 W	S 36 E	S 40 E	S 27 E	S 51 E	S 15 W

(*e*) A similar modification of the air movement was shown at most of the Himalayan hill stations, and was probably due to some widespread action operating through a great depth of the atmosphere :—

Station.	WIND DIRECTION.							
	June.		July.		August.		September.	
	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.
	°	°	°	°	°	°	°	°
Srinagar .	N 34 E	N 9 E	N 63 W	N 48 W	N 73 W	N 48 W	N 56 W	N 33 W
Simla . .	N 21 W	N 17 W	N 38 W	N 15 E	N 9 W	N 33 E	N 13 W	N 8 E
Ranikhet .	S 77 W	S 69 W	S 67 W	S 60 W	S 87 W	S 60 W	S 62 W	S 39 W
Darjeeling .	S 87 W	S 15 W	S 64 W	S 75 E	N 78 W	S 84 E	E	S 85 E

(*f*) Winds were feebler and more easterly than usual in the western half of the equatorial region as represented by Zanzibar and Seychelles. The deflection was large at Zanzibar, where it averaged 18 degrees :—

Station.	WIND DIRECTION.							
	June.		July.		August.		September.	
	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.
	°	°	°	°	°	°	°	°
Zanzibar .	S 11 E	S 4 E	S 19 E	S 6 E	S 31 E	S 9 E	S 35 E	S 6 E
Seychelles .	S 38 E	S 24 E	S 33 E	S 33 E	S 35 E	S 33 E	S 44 E	S 39 E

IV. The retreating south-west monsoon period.—

(*a*) The air movement was of about the usual steadiness and intensity over practically the whole of the country.

(*b*) There were no important modifications of the direction of the air movement, except at Port Blair, where south-west winds were unusually prevalent during October, and at Saugor Island, where winds showed an undue westerly component throughout the period.

(*c*) Winds were throughout the period much more easterly than usual in the extreme west of the equatorial belt as represented by Zanzibar. The deflection amounted to 59° in October, 53° in November, and 39° in December.

Humidity.

The departures from normal of the mean monthly and annual aqueous vapour pressure and relative humidity for the year 1905 are given in Tables XVIII and XIX. The normal values employed in the determination of the departures are given in Tables XXX and XXXIII of the Indian Meteorological Memoirs, Volume XVII. The four tables (Tables XX to XXIII) give departure data of aqueous vapour pressure and relative humidity for each month of the year and for the year:—

1st—For sixteen meteorological areas adopted in the geographical summaries of meteorological data in the annual reports issued by the department previous to 1891.

2nd—For nine meteorological provinces of the Empire.

TABLE XVIII.—*Departure of the monthly and annual mean vapour pressure data of 1905 from the average of past years.*

Meteorological Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		"	"	"	"	"	"	"	"	"	"	"	"	"
Burma Coast and Bay Islands.	Port Blair	−·031	−·005	+·001	−·023	−·006	−·012	+·002	−·009	−·006	−·005	−·071	+·026	−·012
	Rangoon	+·021	−·016	−·021	−·069	−·030	−·018	−·010	−·014	−·014	−·019	−·046	−·021	−·021
	Diamond Island	−·017	−·058	−·015	−·036	−·022	−·014	+·013	+·020	−·006	−·009	−·053	+·023	−·015
	Cocos Island	−·020	+·001	+·012	−·039	?	−·025	+·009	+·020	+·002	+·018	+·021	+·026	?
Bengal and Orissa	Chittagong	−·006	+·111	−·025	−·062	?	?	−·027	−·016	−·033	−·017	−·051	−·011	?
	Calcutta (Alipore)	+·014	−·109	+·020	−·044	+·004	+·011	−·027	+·007	−·028	+·026	−·013	−·008	−·011
	Saugor Island	−·015	−·177	−·062	−·091	−·033	+·021	−·013	+·019	+·004	+·010	+·042	+·003	−·024
	False Point	−·003	+·110	−·011	−·066	−·015	+·005	−·017	+·031	−·002	+·008	−·034	−·037	−·021
Gangetic Plain and Chota Nagpur.	Hazaribagh	+·016	−·028	+·038	+·001	+·047	−·171	−·042	−·005	−·003	−·039	−·011	+·010	−·016
	Allahabad	+·045	+·010	+·112	+·078	+·110	−·104	−·022	+·021	+·033	−·126	−·046	−·051	+·005
Upper Sub-Himalayas.	Dehra Dun	+·011	−·051	+·001	−·029	+·068	−·089	+·004	+·029	+·001	−·037	−·036	−·009	−·011
	Roorkee	+·017	−·037	−·003	−·025	+·034	−·030	−·020	+·039	+·005	−·065	−·048	−·024	−·013
	Meerut	+·017	−·045	−·037	−·080	+·007	−·033	−·068	−·032	−·034	?	?	?	?
	Lahore	+·024	−·040	−·015	+·006	+·043	+·030	+·047	−·036	+·109	+·124	+·090	+·051	+·036
	Ludhiana	+·018	−·042	−·045	−·078	+·016	−·029	−·034	−·016	−·037	−·079	−·066	−·027	−·032
Indus Valley and North-West Rajputana.	Peshawar	0	−·065	−·045	−·036	+·042	−·070	−·018	−·022	−·006	+·004	+·019	+·015	−·045
	Jacobabad	+·044	+·020	−·024	+·006	+·081	−·002	+·004	+·021	−·009	+·006	+·098	+·101	+·029
	Kurrachee	−·035	−·095	−·093	−·023	+·014	−·030	+·028	−0·3	−·010	−·051	+·079	+·054	−·015
East Rajputana, Central India and Gujarat.	Jaipur	+·001	−·061	−·023	−·043	−·049	−·061	−·072	−·097	−·043	−·084	−·006	−·027	−·047
	Deesa	−·028	−·049	+·018	−·047	−·065	−·046	+·006	−·036	−·018	−·056	+·006	−·020	−·028
Deccan	Belgaum	+·018	−·065	−·064	−·136	+·024	−·003	+·018	+·024	−·016	−·009	+·013	−·069	−·022
	Sholapur	−·034	−·087	−·036	−·055	+·002	−·007	+·006	+·019	−·054	−·041	−·078	−·123	−·041

TABLE XVIII.—*Departure of the monthly and annual mean vapour pressure data of 1905 from the average of past years*—concld.

Meteorological Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		"	"	"	"	"	"	"	"	"	"	"	"	"
Deccan—*concld.*	Akola	−·030	−·069	+·014	+·031	+·084	−·017	−·004	+·016	+·022	−·080	−·049	−·050	−·011
	Buldana	−·062	−·080	+·134	−·002	−·011	−·044	−·019	−·002	+·004	−·072	−·066	−·069	−·024
	Khandwa	−·084	−·094	+·002	?	?	?	−·029	−·013	−·017	−·092	−·064	−·078	?
	Nagpur	−·043	−·081	+·057	+·021	+·041	−·074	−·034	+·006	−·004	−·054	−·055	−·076	−·025
	Hyderabad (Deccan)	+·008	−·029	+·023	−·024	+·023	−·054	?	+·013	−·028	−·029	−·060	−·075	?
West Coast	Bombay	?	−·168	−·102	−·071	+·026	−·015	+·009	+·069	−·008	+·013	−·017	−·056	?
	Karwar	+·013	−·144	−·121	−·115	+·010	+·008	+·017	+·011	+·007	+·021	+·058	−·069	−·025
South India	Salem	−·005	+·065	+·045	+·051	+·101	+·033	+·045	+·016	+·022	+·021	+·054	−·012	+·036
	Chitaldroog	+·014	+·060	+·051	−·031	+·036	+·017	+·001	+·015	+·056	+·043	+·028	−·055	+·020
	Bangalore	−·006	+·033	−·007	−·004	+·021	+·001	−·017	+·008	+·003	−·005	+·022	−·066	−·001
	Hassan	+·018	+·045	+·017	−·098	+·044	+·021	+·027	+·032	+·009	+·017	+·022	−·079	+·006
	Mysore	+·022	+·059	+·039	−·002	+·032	+·027	+·015	+·018	−·023	−·004	+·006	−·082	+·009
	Madras	−·034	+·005	−·004	−·027	+·002	−·007	+·010	+·008	+·045	+·037	+·040	−·050	+·002
	Bellary	+·030	+·104	+·070	+·041	+·026	+·058	+·047	+·048	+·015	−·004	−·020	−·072	−·029
	Waltair	−·024	−·009	+·045	−·024	+·001	−·015	−·045	+·007	−·055	−·037	−·082	−·043	−·023
Hill Station, Baluchistan.	Quetta	+·003	−·008	−·020	−·050	−·013	−·097	−·090	−·087	−·042	−·014	+·010	+·029	−·032
Hill Stations, Northern India.	Leh	−·028	−·040	−·011	−·004	+·025	+·013	+·031	+·024	+·032	+·003	+·022	+·006	+·002
	Srinagar	+·005	−·035	−·050	−·019	+·041	−·002	−·036	+·015	−·005	+·045	+·024	+·001	−·001
	Simla (Ridge)	−·004	−·016	−·008	−·046	−·001	−·045	−·019	−·022	−·038	−·022	−·033	+·004	−·021
	Chakrata	+·005	−·021	−·005	−·014	+·035	−·059	+·025	+·016	0	−·019	−·069	−·015	−·010
	Ranikhet	−·005	−·032	−·018	−·026	+·056	−·031	+·004	+·014	+·002	−·058	−·033	−·011	−·012
	Katmandu	−·015	−·056	−·039	−·071	+·052	+·003	+·012	+·016	+·034	+·004	+·026	+·004	−·003
	Darjeeling	−·017	−·026	−·029	−·030	+·027	+·039	+·024	+·021	+·031	+·023	+·033	+·029	+·010
Hill Stations, Central India.	Mount Abu	−·008	−·046	+·007	−·046	−·062	−·041	−·002	−·013	−·019	−·048	+·016	−·017	−·023
	Pachmarhi	−·021	−·068	+·003	−·050	−·096	−·130	−·024	−·006	+·017	−·081	−·039	−·056	−·046
	Chikalda	−·061	−·083	−·031	−·044	−·025	−·056	+·005	+·025	+·017	−·039	−·048	−·066	−·034
Extra-Indian Stations.	Aden	+·063	?	?	?	+·082	+·096	+·142	+·131	+·039	+·027	+·059	+·082	?
	Perim	−·059	−·078	−·107	−·125	−·084	+·051	+·059	+·019	+·008	−·023	−·044	−·019	−·034
	Zanzibar	−·007	+·007	?	?	?	?	?	?	?	?	?	?	?
	Port Victoria (Seychelles)	+·032	+·008	+·020	−·006	+·009	−·009	−·003	+·010	+·025	+·032	+·030	+·032	+·010
	Mauritius (Pamplemouses)	+·096	+·031	+·046	+·006	+·012	+·025	+·029	−·006	+·042	+·028	+·032	+·049	+·033

TABLE XIX.—*Departure of the monthly and annual mean relative humidity data of 1905 from the average of past years.*

Meteorological Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma Coast and Bay Islands.	Port Blair	— 1	+ 1	+ 1	— 2	— 5	0	— 4	— 2	— 2	+ 2	— 8	+ 1	— 2
	Rangoon	+ 2	— 4	— 3	— 5	— 6	— 2	— 1	— 3	— 2	— 4	— 5	— 6	— 3
	Diamond Island	— 1	— 7	— 3	— 3	— 1	— 2	— 3	+ 2	— 4	+ 5	— 8	+ 1	— 3
	Cocos Island	+ 2	+ 3	— 1	0	?	+ 2	— 1	— 2	0	0	— 3	+ 6	?
Bengal and Orissa	Chittagong	+ 1	— 5	+ 4	+ 5	?	?	— 1	+ 1	0	— 3	— 4	— 3	?
	Calcutta (Alipore)	+ 1	— 6	+ 7	+ 3	+ 3	+ 8	— 1	— 2	— 1	— 1	— 4	— 5	— 1
	Saugor Island	— 2	—10	+ 2	— 1	— 2	— 3	+ 1	— 2	+ 1	0	— 7	— 2	— 2
	False Point	— 4	— 6	— 1	— 3	— 2	— 6	— 2	— 2	+ 1	+ 2	— 4	— 3	— 3
Gangetic Plain and Chota Nagpur.	Hazaribagh	+ 8	+ 6	+12	+ 7	+ 6	—26	— 5	— 3	+ 1	— 5	— 1	+ 2	0
	Allahabad	+12	+10	+19	+10	+ 7	—16	— 3	+ 3	+ 1	—10	— 8	— 9	+ 1
Upper Sub-Himalayas	Dehra Dun	+ 9	+ 6	+12	+ 2	+ 6	—12	— 1	— 1	— 2	— 7	— 7	0	0
	Roorkee	+ 9	+10	+10	+ 4	+ 1	— 5	— 4	+ 2	+ 2	— 4	— 6	— 1	+ 2
	Meerut	+ 8	+ 6	+ 5	0	— 1	— 6	— 7	— 9	— 6	?	?	?	?
	Lahore	+ 8	+ 7	+ 8	+ 2	— 2	— 3	— 2	—16	+ 9	+12	+ 8	+11	+ 4
	Ludhiana	+10	+ 9	+10	— 4	— 5	— 8	— 6	— 9	— 6	— 7	— 9	— 4	— 2
Indus Valley and North-West Rajputana.	Peshawar	+ 2	— 2	+ 5	— 1	+ 1	— 8	— 5	— 8	0	— 7	+ 1	+ 4	— 2
	Jacobabad	+14	+13	+ 3	— 2	— 1	+ 1	— 2	— 1	— 1	— 2	+ 4	+17	+ 4
	Kurrachee	— 2	— 2	— 4	+ 1	0	— 2	+ 4	— 1	— 3	— 8	+ 3	+ 2	— 1
East Rajputana, Central India and Gujarat.	Jaipur	+ 2	+ 2	+ 4	— 1	— 9	—12	—15	—24	—11	—13	— 8	— 7	— 8
	Deesa	— 2	— 3	+ 8	— 1	— 6	— 4	+ 2	— 8	— 4	— 7	— 4	— 2	— 3
Deccan	Belgaum	+ 6	— 4	— 1	—10	+ 3	— 4	0	+ 1	— 5	— 2	— 1	— 9	— 2
	Sholapur	— 4	— 7	— 1	— 2	— 3	— 5	— 2	+ 2	—12	— 7	—13	—16	— 6
	Akola	— 5	— 5	+ 2	+ 2	+ 1	— 9	— 4	+ 2	+ 3	— 9	— 8	— 7	— 3
	Buldana	— 7	— 6	+14	0	— 4	—10	— 5	— 2	0	—12	— 9	—11	— 4
	Khandwa	—11	— 6	+ 3	?	?	?	— 3	— 4	— 3	— 9	—10	— 9	?
	Nagpur	— 5	— 6	+ 7	+ 5	+ 1	—13	— 6	— 1	+ 3	— 5	— 8	— 9	— 3
	Hyderabad (Deccan)	+ 2	— 1	+ 2	0	+ 2	— 8	?	0	— 6	— 3	—11	— 9	?
West Coast	Bombay	?	—11	— 2	+ 1	+ 2	— 7	0	— 2	— 3	— 3	— 3	— 6	?
	Karwar	+ 2	— 7	— 6	— 2	+ 1	— 2	— 4	— 1	— 3	0	0	— 0	— 2

TABLE XIX.—*Departure of the monthly and annual mean relative humidity data of 1905 from the average of past years*—concld.

Meteorological Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
South India	Salem	— 4	+ 2	+ 1	+ 2	+ 5	— 1	— 1	— 4	— 2	0	— 1	— 3	— 1
	Chitaldroog	+ 4	+ 7	+ 7	— 4	+ 2	+ 1	— 3	0	+ 4	+ 4	— 2	— 8	+ 1
	Bangalore	— 2	+ 3	0	+ 2	+ 1	— 1	— 5	— 1	— 3	— 1	+ 1	—10	— 1
	Hassan	+ 3	+ 3	+ 2	— 9	+ 3	0	+ 1	+ 2	— 2	+ 2	— 1	— 8	0
	Mysore	+ 3	+ 5	+ 5	— 2	+ 2	+ 1	+ 2	+ 1	— 3	0	— 2	— 7	0
	Madras	+ 1	— 4	— 5	— 3	0	— 6	— 5	— 2	— 5	+ 2	0	— 5	— 3
	Bellary	+ 1	+ 8	+ 5	+ 1	+ 1	+ 3	— 1	+ 5	— 2	— 2	— 6	— 9	0
	Waltair	— 2	+ 4	+10	+ 4	+ 6	+ 3	— 1	+ 5	+ 3	— 3	— 9	— 6	+ 1
Hill Station, Baluchistan.	Quetta	+11	+16	+11	— 4	— 2	— 8	— 9	— 8	— 1	0	0	+13	+ 2
Hill Stations, Northern India.	Leh	—21	—26	+ 1	+ 5	+ 7	+ 7	+10	+ 4	+11	— 1	—12	+ 8	— 1
	Srinagar	+ 1	— 1	+ 2	+ 3	+ 2	— 3	— 9	— 4	0	0	+ 1	+ 3	0
	Simla (Ridge)	+12	+21	+18	— 1	— 2	— 9	0	— 3	— 5	— 5	— 7	+ 7	+ 2
	Chakrata	+14	+17	+19	+ 3	+ 3	—13	+ 3	+ 2	— 2	— 7	— 4	— 3	+ 3
	Ranikhet	+14	+18	+11	+ 3	+ 6	— 8	0	0	— 1	—13	— 6	+ 1	+ 2
	Katmandu	+ 1	— 1	— 2	— 2	+ 4	— 4	+ 1	+ 2	+ 3	+ 1	+ 3	+ 6	+ 1
	Darjeeling	0	+ 7	— 5	0	+ 3	— 1	0	+ 1	+ 1	+ 3	+ 4	+ 8	+ 2
Hill Stations, Central India.	Mount Abu	+ 4	+ 4	+ 9	— 2	—11	— 5	+ 2	— 2	— 4	— 8	0	— 2	— 1
	Pachmarhi	+ 1	— 6	+ 2	— 2	—10	—20	— 3	— 2	+ 2	— 8	— 6	— 6	— 5
	Chikalda	— 6	— 5	+ 1	— 2	— 5	—14	— 1	+ 1	+ 3	— 7	— 8	— 9	— 4
Extra-Indian Stations.	Aden	+ 8	?	?	?	+ 7	+ 4	+ 4	+ 5	+ 4	0	+ 2	+ 4	?
	Perim	— 7	—10	—13	—12	— 8	+ 1	+ 2	— 2	+ 1	— 3	— 4	— 5	+ 5
	Zanzibar	— 2	— 2	?	?	?	?	?	?	?	?	?	?	?
	Port Victoria (Seychelles).	0	— 2	— 4	— 3	— 1	— 4	— 3	— 2	— 1	— 2	— 2	0	— 2
	Mauritius (Pamplemouses).	+10	+ 2	+ 5	0	+ 2	+ 4	+ 1	— 1	+ 4	+ 2	+ 6	+ 7	+ 4

TABLE XX.—*Geographical summary of the aqueous vapour pressure departure data of Table II in the Monthly Weather Reviews of 1905.*

METEOROLOGICAL AREA.	Number of stations.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
		"	"	"	"	"	"	"	"	"	"	"	"	"
North-West Himalayas	5	—·005	—·029	—·018	—·022	+·031	—·025	+·001	+·009	—·002	—·010	—·027	—·003	—·008
Sikkim Himalayas and Nepal	2	—·016	—·041	—·034	—·051	+·040	+·021	+·018	+·019	+·033	+·014	+·030	+·017	+·004
Punjab Plains	3	+·014	—·049	—·025	—·036	+·034	—·023	+·002	—·025	+·022	+·017	+·014	+·013	—·004
Gangetic Plain	3—4	+·023	—·031	+·018	—·014	+·055	—·064	—·027	+·014	+·002	—·076	—·043	—·018	—·014
Western Rajputana	4	—·007	—·043	—·023	—·028	—·008	—·030	+·009	—·010	—·014	—·037	+·050	+·030	—·009
Eastern Rajputana and Central India	1	+·001	—·061	—·023	—·043	—·049	—·061	—·072	—·097	—·043	—·083	—·066	—·027	—·047
Narbudda Valley	1	—·084	—·094	+·002	?	?	?	—·029	—·013	—·017	—·092	—·064	—·078	?
Chota Nagpur	1	+·016	—·028	+·038	+·001	+·047	—·171	—·042	—·005	—·003	—·039	—·011	+·010	—·016
Lower Bengal	2	—·001	—·143	—·021	—·068	—·015	+·016	—·020	+·013	—·002	+·018	+·015	—·003	—·018
Orissa	1	—·003	—·110	—·011	—·066	—·015	+·005	—·017	+·034	—·002	+·008	—·034	—·037	—·021
Central Provinces (South) and Berar	5	—·043	—·076	+·035	—·009	—·001	—·064	+·015	+·008	+·011	—·063	—·051	—·063	—·028
Konkan	1—2	+·013	—·156	—·112	—·093	+·018	—·004	+·013	+·010	—·001	+·017	+·021	—·063	—·028
Deccan, Hyderabad and Mysore	7—8	+·009	+·015	+·012	—·039	+·026	+·008	+·014	+·022	—·005	—·004	—·008	—·078	—·002
East Coast and Carnatic	3	—·021	+·020	+·029	0	+·035	+·004	+·003	+·010	+·004	+·007	+·004	—·035	+·005
Arakan and Pegu	2—3	—·001	—·062	—·020	—·036	—·026	—·016	—·038	—·003	—·018	—·015	—·050	—·003	—·022
Bay Islands	1—2	—·026	—·001	+·007	—·031	—·006	—·019	+·006	+·006	—·002	+·007	—·046	+·051	—·005
Extra-Tropical India	22—23	—·001	—·049	—·012	—·030	+·022	—·033	—·009	—·003	0	—·024	—·001	0	—·012
Tropical India	23—24	—·011	—·036	+·003	—·035	+·012	—·014	+·001	+·012	—·001	—·044	—·023	—·046	—·013
Whole India	45—47	—·006	—·041	—·004	—·033	+·017	—·023	—·004	+·005	—·001	—·019	—·012	—·024	—·012

TABLE XXI.—*Geographical summary of the relative humidity departure data of Table II in the Monthly Weather Reviews of 1905.*

METEOROLOGICAL AREA.	Number of stations.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
North-West Himalayas	5	+ 4	+ 6	+10	+ 3	+ 3	— 5	+ 1	0	+ 1	— 5	— 6	+ 3	+ 1
Sikkim Himalayas and Nepal	2	+ 1	+ 3	— 4	— 1	+ 4	— 3	+ 1	+ 2	+ 2	+ 2	+ 4	+ 7	+ 2
Punjab Plains	3	+ 7	+ 5	+ 8	— 1	— 2	— 6	— 4	—11	+ 1	— 1	0	+ 4	0
Gangetic Plain	3—4	+10	+ 8	+12	+ 4	+ 3	—10	— 4	— 1	— 1	— 7	— 7	— 3	0
Western Rajputana	4	+ 4	+ 3	+ 4	— 1	— 5	— 3	+ 2	— 3	— 3	— 6	+ 1	+ 4	0

TABLE XXI.—*Geographical summary of the relative humidity departure data of Table II in the Monthly Weather Reviews of 1905*—concld.

METEOROLOGICAL AREA.	Number of stations.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
Eastern Rajputana and Central India	1	+ 2	+ 2	+ 4	— 1	— 9	—12	—15	—24	—11	—13	— 8	— 7	— 8
Nerbudda Valley	1	—11	— 6	+ 3	8	8	8	— 3	— 4	— 3	— 9	—10	— 9	8
Chota Nagpur	1	+ 8	+ 6	+12	+ 7	+ 6	—26	— 5	— 3	+ 1	— 5	— 1	+ 2	0
Lower Bengal	2	— 1	— 8	+ 5	+ 1	+ 1	— 6	0	— 2	0	— 1	— 6	— 4	— 2
Orissa	1	— 4	— 6	— 1	— 3	— 2	— 6	— 2	— 2	+ 1	+ 2	— 4	— 3	— 3
Central Provinces (South) and Berar	5	— 4	— 6	+ 5	+ 1	— 3	—13	— 4	— 1	+ 2	— 8	— 8	— 8	— 4
Konkan	1—2	+ 2	— 9	— 4	— 1	+ 2	+ 5	— 2	— 2	— 3	— 2	— 2	— 6	— 3
Deccan, Hyderabad and Mysore	7—8	+ 2	+ 2	+ 2	— 3	+ 1	— 2	— 1	+ 1	— 4	— 1	— 4	—10	— 1
East Coast and Carnatic	3	— 2	+ 1	+ 2	+ 1	+ 4	— 1	— 2	0	— 1	0	— 3	— 5	— 1
Arakan and Pegu	2—3	+ 1	— 5	— 1	— 1	— 4	— 2	— 1	— 1	— 2	— 4	— 6	— 3	— 2
Bay Islands	1—2	+ 1	+ 2	0	— 1	— 5	+ 1	— 3	— 2	— 1	— 1	— 6	+ 4	— 1
Extra-Tropical India	22—23	+ 4	+ 3	+ 7	+ 1	0	— 7	— 2	— 4	— 1	— 4	— 3	+ 1	0
Tropical India	23—24	— 1	— 2	+ 2	— 1	0	— 4	— 2	0	— 1	— 3	— 5	— 6	— 2
Whole India	44—47	+ 2	+ 1	+ 4	0	0	— 6	— 2	— 2	— 1	— 4	— 4	— 3	— 1

TABLE XXII.—*Departure of the mean monthly and annual aqueous vapour pressure from the normal in the nine meteorological provinces of India in 1905.*

METEOROLOGICAL PROVINCE.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
	"	"	"	"	"	"	"	"	"	"	"	"	"
Burma Coast and Bay Islands	—·012	—·032	—·006	—·042	—·019	—·017	+·008	+·004	—·006	—·004	—·048	+·010	—·014
Bengal and Orissa	—·003	—·127	—·020	—·065	—·015	+·012	—·021	+·010	—·019	+·007	—·014	—·014	—·022
Gangetic Plain and Chota Nagpur	+·031	—·009	+·075	+·039	+·079	—·138	—·032	+·008	+·015	—·083	—·029	—·021	—·005
Upper Sub-Himalayas	+·019	—·042	—·014	—·040	+·034	—·030	—·014	—·003	+·009	—·014	—·015	—·007	—·009
Indus Valley and North-West Rajputana	+·003	—·047	—·054	—·018	+·046	—·034	+·005	—·004	—·009	—·014	+·066	+·057	0
East Rajputana, Central India and Gujarat	—·013	—·054	—·103	—·045	—·057	—·054	—·033	—·067	—·031	+·029	0	—·028	—·038
Deccan	—·032	—·069	+·019	—·028	—·022	—·033	—·010	+·009	—·013	—·054	—·051	—·077	—·030
West Coast	+·013	—·156	—·112	—·093	+·019	—·004	+·013	+·010	—·001	+·017	+·021	—·063	—·028
South India	+·002	+·045	+·032	—·012	+·033	+·016	+·016	+·019	+·009	+·008	+·029	—·057	+·010

TABLE XXIII.—*Departure of the mean monthly and annual relative humidity from the normal in the nine meteorological provinces of India in 1905:*

METEOROLOGICAL PROVINCE.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
Burma Coast and Bay Islands	+ 1	— 3	— 2	— 3	— 4	— 1	— 3	— 2	— 2	— 3	— 6	— 1	— 2
Bengal and Orissa	— 1	— 7	+ 3	+ 1	0	— 6	— 1	— 1	0	— 1	+ 5	— 3	— 1
Gangetic Plain and Chota Nagpur	+10	+ 8	+16	+ 9	+ 7	—21	— 4	0	+ 1	— 8	+ 5	— 4	+ 1
Upper Sub-Himalayas	+ 9	+ 8	+ 9	+ 1	6	— 7	— 4	— 7	— 1	— 2	+ 4	+ 2	0
Indus Valley and North-West Rajputana	+ 5	+ 3	+ 1	— 1	0	— 3	— 1	+ 3	— 2	— 6	+ 3	+ 8	0
East Rajputana, Central India and Gujarat	+ 1	0	+ 6	— 1	— 8	— 8	— 7	—16	— 8	—10	+ 6	— 5	— 3
Deccan	— 3	— 5	+ 4	— 1	+ 1	— 8	— 3	— 1	— 3	— 7	+ 9	—10	— 4
West Coast	+ 2	— 9	— 4	— 1	+ 2	— 5	— 2	— 2	— 3	+ 2	— 2	— 6	+ 3
South India	+ 1	+ 3	+ 3	— 1	+ 3	0	— 2	+ 1	+ 1	0	— 3	— 7	0

I.—The cold weather period.—

(1) The absolute humidity was more or less below the average in all parts of India, with the exception of Burma and the south of the Peninsula, but, owing partly to the prevailing depression of the temperature, the relative dryness, was neither so wide-spread nor so intense as the deficiency in vapour pressure. The dryness, both absolutely and relatively estimated, was greatest in the Bombay Deccan, Gujarat, Hyderabad and Berar:—

PROVINCE OR DIVISION.	DEPARTURE OF MEAN 8 HRS. VAPOUR PRESSURE FROM NORMAL IN			DEPARTURE OF MEAN 8 HRS. RELATIVE HUMIDITY FROM NORMAL IN.		
	January.	February.	Period, January and February.	January.	February.	Period, January and February.
	"	"	"			
Burma	+ ·002	+ ·001	+ ·002	+ 2	+ 2	+ 2
Assam	—·018	—·086	—·052	— 1	— 1	— 1
Bengal	—·004	—·107	—·056	0	— 6	— 3
Orissa	+ ·003	—·113	—·056	+ 1	— 7	— 3
Bihar	—·001	—·077	—·039	+ 6	0	+ 3
Chota Nagpur	+ ·014	—·060	—·023	+11	+ 7	+ 9
United Provinces of Agra and Oudh.	+ ·012	—·055	—·022	+ 7	+ 5	+ 6
Punjab	+ ·008	—·048	—·020	+ 5	+ 5	+ 5
North-West Frontier Province.	+ ·011	—·069	—·029	+ 3	—10	— 4
Sind	—·002	—·053	—·029	+ 5	+ 2	+ 4
Rajputana	0	—·046	—·023	+ 2	+ 2	+ 2
Gujarat	—·006	—·119	—·063	+ 1	—12	— 6
Central India	0	—·079	—·040	+ 5	— 2	+ 2
Central Provinces	—·017	—·092	—·055	— 1	— 7	— 4
Berar	—·021	—·098	—·060	— 3	— 9	— 6
West Coast	+ ·026	—·049	—·013	+ 2	— 3	— 1
Bombay Deccan	—·089	—·117	—·063	— 2	—13	— 8
Hyderabad	—·022	—·073	—·048	— 5	— 9	— 7
Mysore	—·005	+ ·042	+ ·019	+ 1	+ 5	+ 3
Madras Coast	+ ·004	+ ·015	+ ·010	+ 2	0	+ 1
Madras Deccan	—·022	+ ·041	+ ·010	— 5	+ 4	— 1
South India	+ ·004	+ ·044	+ ·024	— 1	0	— 1

The deficiency of aqueous vapour in the air in northern and central India, notwithstanding the large excess of precipitation there was probably due chiefly to more frequent incursions of dry air from the mountainous region surrounding upper India than usually occur during the period, a result of unusually frequent and heavy snowfall. A confirmation of this view is afforded by the fact that the vapour tension was greater than usual in Burma and the south of the Peninsula, regions practically beyond the reach of dry cold waves.

(2) In Baluchistan and the hill districts of the western Himalayas the relative humidity was high, but not the absolute humidity, which was slightly below the normal:—

STATION.	DEPARTURE OF MEAN 8 HRS. VAPOUR PRESSURE FROM NORMAL IN			DEPARTURE OF MEAN 8 HRS. RELATIVE HUMIDITY FROM NORMAL IN		
	January	February.	Period, January and February.	January.	February.	Period, January and February.
	"	"	"			
Chaman	—·012	—·023	—·018	+ 5	+16	+11
Quetta	+ ·005	—·010	—·003	+12	+19	+16
Murree	+ ·001	—·007	—·003	+14	+25	+20
Gilgit	—·005	—·032	—·019	0	— 3	— 2
Srinagar	+ ·015	—·019	—·002	+ 1	+ 4	+ 3
Simla	+ ·005	—·010	—·003	+11	+17	+14
Leh	+ ·006	—·006	0	+ 2	— 2	0
Chakrata	+ ·013	—·010	+ ·002	+16	+27	+17
Ranikhet	—·012	—·030	—·021	+ 8	+21	+15

II.—The hot weather period.—The meteorological conditions were very abnormal during this period. Weather was more unsettled than usual over by far the greater part of the country, and temperature was accordingly below the average almost universally in March and April, and in the eastern half of India in May.

Notwithstanding the excessive precipitation, the amount of moisture contained in the air was more or less below the normal over a large part of the country; the defect was shown chiefly in April, in which month well-marked winter conditions obtained in northern India; owing, however, to the depression of temperature, the relative humidity was in general above the average. More especially was this the case in Bihar, Chota Nagpur and the United Provinces, where the percentage of saturation averaged 8 above the normal:—

Province or Division.	Departure of mean 8 hrs. vapour pressure from normal in				Departure of mean 8 hrs. relative humidity from normal in			
	March.	April.	May.	Period, March to May.	March.	April.	May.	Period, March to May.
	"	"	"	"				
Burma	+·012	—·063	—·008	—·020	+ 3	—3	—4	—1
Assam	—·012	—·088	+·004	—·032	+ 3	0	—1	+1
Bengal	—·015	—·100	—·024	—·046	+	0	+2	+2
Orissa	—·004	—·067	—·060	—·044	0	—1	—2	—1
Bihar	+·017	—·027	+·028	+·006	+ 9	+8	+8	+8
Chota Nagpur	+·061	—·048	—·021	—·003	+13	+6	+5	+8
United Provinces of Agra and Oudh	+·029	—·001	+·051	+·026	+13	+6	+5	+8
Punjab	—·016	—·054	+·001	—·023	+ 9	—1	—2	+2
North-West Frontier Province	—·045	—·058	+·068	—·012	+ 3	—4	+3	+1
Sind	—·030	—·023	+·007	—·015	+ 1	0	—3	—1
Rajputana	—·003	—·053	—·059	—·038	+10	0	—9	0
Gujarat	+·025	—·049	+·024	0	+ 8	+1	+1	+3
Central India	+·016	—·095	+·014	—·022	+ 8	—4	0	+1
Central Provinces	+·023	—·030	+·001	—·002	+ 5	+3	+2	+3
Berar	—·034	—·105	+·065	—·025	— 2	—3	+1	— 1
West Coast	—·083	—·082	+·012	—·051	— 4	—1	+2	—1
Bombay Deccan	—·047	—·136	+·034	—·050	0	—8	—1	—3
Hyderabad	—·016	—·050	+·008	—·019	— 1	—1	—1	—1
Mysore	—·016	—·043	+·023	—·012	0	—7	+3	—1
Madras Coast	+·028	—·027	+·009	+·003	0	—1	+3	+1
Madras Deccan	+·032	+·032	+·079	+·048	+3	+3	+6	+4
South India	+·005	0	+·022	+·009	—1	+2	+3	+1

In Baluchistan and the western Himalayas the hygrometric conditions were similar in general character to those of the neighbouring plains:—

Station.	Departure of mean 8 hrs. vapour pressure from normal in				Departure of mean 8 hrs. relative humidity from normal in			
	March.	April.	May.	Period, March to May.	March.	April.	May.	Period, March to May.
	"	"	"	"				
Chaman	—·046	—·058	—·013	—·039	+ 5	—10	— 2	— 2
Quetta	—·022	—·054	—·011	—·029	+10	— 8	— 2	0
Murree	—·015	—·033	+·016	—·011	+11	— 1	+ 1	+ 3
Gilgit	—·050	—·021	+·026	—·015	— 9	+ 2	+ 7	0
Srinagar	—·038	—·044	+·015	—·022	0	0	+ 2	+ 1
Simla	—·016	—·038	+·002	—·006	+20	— 1	— 1	+ 6
Leh	—·015	—·018	—·006	—·013	0	0	— 1	0
Chakrata	—·005	—·019	+·024	0	+14	+ 5	+ 6	+ 8
Ranikhet	—·014	—·029	+·036	+·004	+11	+ 3	+12	+ 9

III.—The south-west monsoon period.—The departures of humidity from the normal during the period were not large and were over the greater part of the country related directly to the character of the rainfall distribution. The percentage of saturation was roughly normal over Burma, north-east India, Sind and a large part of the Peninsula; but the air was drier than usual on the northern margin of the field of the Arabian Sea current as also in the west of the field of the Bay current.

Province or Division.	Departure of mean 8 hrs. vapour pressure from normal in					Departure of mean 8 hrs. relative humidity from normal in				
	June.	July.	August.	September.	Period, June to September.	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"					
Burma	+ ·014	+ ·020	+ ·023	+ ·009	+ ·017	+ 1	+ 1	+ 1	+ 1	+ 1
Assam	0	+ ·009	+ ·016	+ ·005	+ ·008	0	0	+ 2	− 3	0
Bengal	+ ·030	− ·006	+ ·015	− ·005	+ ·009	+ 1	0	+ 1	0	0
Orissa	− ·023	− ·034	− ·002	− ·002	− ·015	+ 10	− 2	+ 3	+ 1	− 4
Bihar	− ·001	+ ·002	+ ·027	+ ·023	+ ·013	+ 7	− 1	+ 3	+ 3	− 1
Chota Nagpur	− ·139	− ·021	+ ·012	+ ·002	− ·037	+ 24	− 1	+ 3	+ 4	+ 6
United Provinces of Agra and Oudh	− ·095	− ·028	+ ·003	+ ·022	− ·025	+ 16	− 6	− 2	0	− 6
Punjab	− ·056	− ·015	− ·054	− ·005	− ·033	+ 8	− 5	− 10	− 2	− 6
North-West Frontier Province	− ·053	+ ·019	− ·037	+ ·006	− ·019	− 9	− 4	− 8	0	− 5
Sind	− ·001	+ ·009	− ·050	+ ·009	− ·008	+ 3	− 1	− 2	− 1	0
Rajputana	+ ·004	− ·025	− ·059	− ·022	− ·026	− 3	− 5	− 12	− 5	− 6
Gujarat	+ ·017	0	− ·016	− ·006	− ·001	− 1	− 2	− 4	+ 4	− 3
Central India	− ·106	− ·019	− ·015	+ ·011	− ·032	− 16	− 3	− 3	+ 1	− 5
Central Provinces	− ·094	− ·014	+ ·003	− ·007	− ·028	− 18	− 3	− 2	+ 2	− 5
Berar	− ·015	+ ·016	+ ·023	− ·014	+ ·003	− 10	− 3	− 2	+ 1	− 4
West Coast	− ·001	+ ·016	− ·002	− ·001	+ ·003	+ 1	− 3	− 2	− 4	− 3
Bombay Deccan	− ·023	− ·006	+ ·010	− ·035	− ·014	− 6	− 3	− 2	− 7	− 5
Hyderabad	− ·031	0	+ ·021	− ·018	− ·007	− 5	− 3	+ 2	− 8	− 4
Mysore	+ ·006	+ ·013	+ ·018	+ ·006	+ ·010	+ 2	− 2	+ 1	− 1	− 1
Madras Coast	+ ·002	− ·002	+ ·021	− ·006	+ ·004	− 4	− 4	0	− 1	− 2
Madras Deccan	+ ·064	+ ·050	+ ·038	− ·017	+ ·034	+ 6	+ 6	+ 6	− 7	+ 3
South India	+ ·022	− ·006	− ·003	+ ·001	+ ·004	+ 2	− 4	− 2	− 2	− 2

In Baluchistan and the hill districts of upper India the air was drier than usual. These conditions did not, however, extend northwards to Leh, where both absolute and relative humidities were above the average:—

Station.	Departure of mean 8 hrs. vapour pressure from normal in					Departure of mean 8 hrs. relative humidity from normal in				
	June.	July.	August.	September.	Period, June to September.	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"					
Quetta	− ·090	− ·043	+ ·011	− ·063	− ·046	− 8	− 5	− 10	− 7	− 8
Murree	− ·062	+ ·009	+ ·002	− ·014	− ·016	− 13	− 3	− 7	− 6	− 7
Gilgit	− ·003	− ·078	− ·148	− ·027	− ·048	+ 4	− 10	− 15	+ 2	− 5
Srinagar	− ·047	− ·049	− ·047	− ·021	− ·041	− 4	+ 8	− 7	+ 2	− 5
Simla	− ·058	− ·011	− ·009	− ·026	− ·026	− 14	+ 1	− 2	− 6	− 6
Leh	− ·008	+ ·023	− ·021	+ ·037	+ ·008	+ 4	+ 10	− 2	+ 12	+ 6
Chakrata	− ·077	− ·005	+ ·013	− ·002	− ·018	− 17	− 1	0	− 3	− 5
Ranikhet	− ·056	+ ·012	+ ·007	+ ·032	− ·003	− 13	− 1	0	+ 1	− 3
Darjeeling	+ ·005	0	+ ·008	+ ·018	+ ·008	− 2	− 1	+ 1	+ 1	0

IV.—The retreating monsoon period.—The departures of the humidity conditions were in general similar to those of the rainfall. The chief feature was the great dryness in Chota Nagpur, Rajputana, Central India, the Central Provinces, the Bombay Deccan and Hyderabad, areas where the rainfall of the period was in marked defect:—

Province or Division.	Departure of mean 8 hrs. vapour pressure from normal in				Departure of mean 8 hrs. relative humidity from normal in			
	October.	November.	December.	Period, October to December.	October.	November.	December.	Period, October to December.
	"	"	"	"				
Burma	+·024	+·016	+·054	+·031	+ 2	+ 2	+ 5	+ 3
Assam	0	+·014	+·024	+·013	— 1	— 2	— 1	— 1
Bengal	+·024	—·008	+·002	+·006	+ 1	— 2	— 2	— 1
Orissa	+·019	—·038	—·046	—·022	+ 2	— 1	— 1	0
Bihar	+·031	0	—·008	+·008	0	— 1	0	0
Chota Nagpur	—·029	—·063	—·037	—·043	— 8	— 9	— 5	— 6
United Provinces of Agra and Oudh.	—·034	—·021	—·022	—·026	— 4	— 7	— 4	— 5
Punjab	—·004	+·015	+·017	+·009	— 2	— 2	+ 3	0
North-West Frontier Province.	+·027	+·041	+·034	+·034	— 1	+ 1	+ 6	+ 2
Sind	+·029	+·110	+·060	+·066	— 2	+ 6	+ 6	+ 3
Rajputana	—·031	—·011	—·027	—·023	— 6	— 6	— 7	— 6
Gujarat	+·009	+·003	—·016	—·001	— 3	— 6	— 3	— 4
Central India	—·090	—·054	—·046	—·063	— 8	—10	— 6	— 8
Central Provinces	—·032	—·057	—·067	—·052	— 4	— 8	— 7	— 6
Berar	—·058	—·059	?	?	— 7	— 9	— 2	— 6
West Coast	+·005	+·024	—·045	—·005	+ 1	— 2	+ 3	+ 2
Bombay Deccan	—·037	—·047	—·106	—·063	— 8	— 7	—12	— 9
Hyderabad	—·008	—·051	—·095	—·051	— 2	—10	— 9	— 7
Mysore	+·007	+·030	—·028	+·003	+ 1	+ 2	— 4	0
Madras Coast	—·011	—·010	—·038	—·020	— 1	— 3	+ 3	— 2
Madras Deccan	—·001	+·020	—·067	—·016	+ 1	— 1	— 5	— 2
South India	+·009	+·022	—·032	0	0	0	— 2	— 1

There was an excess of moisture in Persia, Baluchistan and parts of the western Himalayas. The relative humidity was also generally above the average, more especially in December, when it was 21 above the normal at Cherat and 11 at Quetta:—

Station.	Departure of mean 8 hrs. vapour pressure from normal in				Departure of mean 8 hrs. relative humidity from normal in			
	October.	November.	December.	Period, October to December.	October.	November.	December.	Period, October to December.
	"	"	"	"				
Bushire	+·089	+·055	—·019	+·042	+10	+ 9	+ 2	+ 7
Jask	—·038	+·060	+·018	+·013	— 1	+ 7	+ 5	+ 4
Quetta	+·028	+·025	+·032	+·028	+ 4	+ 6	+11	+ 7
Cherat	+·048	0	+·043	+·030	+ 7	— 1	+21	+ 9
Murree	+·007	+·028	+·013	+·016	0	+ 1	+ 9	+ 3
Simla	—·011	—·011	+·008	—·005	— 5	— 2	+ 6	— 0
Leh	—·019	—·041	+·006	—·018	—12	—25	+ 5	—11
Chakrata	—·042	—·014	+·005	—·017	— 5	— 4	+ 3	— 2

The year—

(*a*) On the average of the whole year the 8 hrs. relative humidity was in slight defect, a result solely of the deficiency in the amount of aqueous vapour of which the pressure was below the normal.

(*b*) The dryness was shown almost equally in tropical and extra-tropical India.

(*c*) The driest period of the year as regards the proportion of vapour in the air lasted from February to April. The dryness was, contrary to the usual rule, associated with excess of precipitation and so far as can be judged was due to frequent incursions of dry air from the mountainous region bordering upper India, consequent upon frequent and heavy snowfall.

(*d*) The larger departures were remarkably persistent: thus, in East Rajputana, Central India and Gujarat, the vapour tension was less than usual in eleven out of twelve months, while in South India it was in defect in only two months.

Cloud.

Normal values of the mean monthly and annual amount of cloud at second class stations have been obtained from the whole of the available data up to the end of the year 1899 given in Tables XXXV and XXXVI of the Indian Meteorological Memoirs, Vol. XVII. These means are the arithmetical averages of the cloud amounts as registered at 10 and 16 hrs., and hence represent the mean amount during the day period rather than of the whole 24 hours.

Departure data of this element of meteorological observation for the year 1905 are given in Tables XXIV, XXV and XXVI. Table XXV gives the mean departure data for the sixteen meteorological areas adopted in the geographical summaries of the meteorological data in the Annual Reports previous to 1891, and Table XXVI gives similar data for nine meteorological provinces of India.

TABLE XXIV.—*Departure of the monthly and annual mean cloud proportion of 1905 from the average of past years.*

Meteorological Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma Coast and Bay Islands.	Port Blair	+0·3	+0·5	+0·8	−0·2	+0·3	+0·3	−0·9	−0·8	−0·5	+0·4	−1·2	−1·2	−0·2
	Rangoon	+1·3	−0·2	0	−0·9	−1·0	−0·6	−0·3	−0·3	+0·2	+0·8	−0·7	−0·7	−0·2
	Diamond Island	−0·5	−0·7	−0·6	−1·0	−1·9	+0·8	+0·3	+0·1	+0·3	−0·3	−1·9	−1·1	−0·5
	Cocos Island	−0·3	+0·1	+1·5	+0·2	+0·7	+1·3	+0·8	−0·4	+0·6	+1·4	−0·5	+0·3	+0·5
	Akyab	−1·3	+0·1	+1·0	−1·1	−1·5	−0·3	−0·2	−0·2	−1·4	−1·4	−2·5	−1·3	−0·8
Bengal and Orissa	Chittagong	+1·4	0	+1·2	−0·8	−1·2	−1·9	−0·1	−0·7	−0·9	−0·2	−1·2	+0·6	−0·3
	Calcutta (Alipore)	+1·7	+1·2	+3·1	+1·4	+1·2	−1·1	+0·2	+0·1	−0·1	+2·3	−0·7	−0·3	+0·6
	Saugor Island	+0·5	+0·6	+1·9	−0·1	−0·5	−1·1	+0·4	−0·2	+0·2	−0·2	−1·1	−0·7	0
	False Point	+1·0	+1·8	+2·8	+1·4	+0·3	−0·6	+0·3	0	+1·1	+1·0	0	+0·2	+0·8
Gangetic Plain and Chota Nagpur.	Hazaribagh	+1·8	+0·8	+2·6	+0·2	+0·2	+0·4	+0·3	−0·7	+0·1	−1·7	−0·3	−0·8	+0·2
	Allahabad	+1·1	+1·1	+3·2	−0·3	−0·2	−2·7	0	+0·5	+0·5	−0·6	+1·3	0	+0·3
Upper Sub-Himalayas.	Dehra Dun	+1·6	+2·4	+2·7	−0·4	+0·4	−2·5	−0·8	+0·3	−0·3	−0·8	+0·2	+0·4	+0·3
	Roorkee	+0·4	+1·0	+1·2	−1·0	−1·0	−2·0	−1·9	−1·4	−0·9	−0·7	−0·5	−0·1	−0·6
	Meerut	0	+1·9	+1·2	−0·4	−1·1	+1·4	−1·4	−2·5	−0·3	?	?	?	?
	Lahore	+1·4	+0·8	+1·8	−0·9	−1·1	−1·7	−2·3	−3·1	0	−0·1	−0·7	+0·7	−0·4
	Ludhiana	−1·0	−0·2	−1·0	−1·5	−1·4	−1·6	−2·1	−4·3	−1·6	−0·6	−1·1	−0·9	−1·5
Indus Valley and North-West Rajputana.	Peshawar	+1·0	−0·4	+0·5	−0·8	−0·8	−1·1	−0·8	−0·8	+0·5	−0·4	−0·1	+0·5	−0·2
	Jacobabad	+0·4	−0·2	−0·7	−1·6	−0·7	−0·8	−1·5	−2·1	+0·2	+0·1	−0·5	+0·8	−0·5
	Kurrachee	+1·7	+1·3	+1·4	+0·9	−0·4	+0·7	+0·8	+0·3	0	+1·1	+1·5	+0·5	+0·9
East Rajputana, Central India and Gujarat.	Jaipur	+0·6	+1·1	+2·1	−0·3	−0·4	−2·9	−0·3	−3·8	+0·8	−0·3	+0·1	−1·1	−0·4
	Dessa	+0·3	−0·3	+1·8	−0·4	−1·1	−2·1	+0·4	−1·5	−2·0	−0·3	+0·8	−1·1	−0·5

TABLE XXIV.—*Departure of the monthly and annual mean cloud proportion of 1905 from the average of past years*—concld.

METEOROLOGICAL PROVINCE.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
DECCAN	Belgaum	+1·6	+0·8	−0·1	+0·2	+0·7	−0·8	−1·0	+0·3	−0·5	−0·9	+1·2	+0·4	−0·2
	Sholapur	+0·5	−0·4	+0·1	−0·7	+0·9	−1·2	+0·4	+0·6	−0·4	−0·8	+0·3	−1·6	−0·2
	Akola	+0·5	−0·1	+0·7	−0·5	−0·1	−2·2	+0·3	+1·3	+0·7	−0·6	+0·8	−0·5	0
	Buldana	+0·6	−0·5	+0·9	−1·1	−0·1	−2·1	−0·2	+0·3	−1·1	−1·9	+0·1	−1·4	−0·5
	Khandwa	+0·5	−0·3	+0·3	−1·9	−0·4	−2·5	−1·5	−2·6	−1·5	−0·7	+0·1	−1·1	−0·9
	Nagpur	+0·7	−0·6	+1·1	−1·3	−0·5	−2·0	−1·4	−0·6	−0·5	−1·8	0	−1·1	−0·7
	Hyderabad (Deccan)	+0·6	0	+0·3	+0·7	+1·7	+0·1	−1·0	+0·3	+0·2	+0·2	−0·3	−1·0	+0·2
WEST COAST	Bombay	+1·1	0	+1·5	+0·1	−0·1	−1·8	+0·3	+0·3	−0·4	−0·1	+1·4	0	+0·2
	Karwar	+0·4	−0·5	−0·7	−1·8	−0·5	−1·6	−1·7	−0·6	−2·2	−1·0	−0·1	−0·8	−0·9
SOUTH INDIA	Salem	+0·1	+0·6	+0·5	+1·2	+0·9	+0·6	−0·2	−0·1	+0·7	−0·3	+0·1	−1·0	+0·3
	Chitaldroog	−0·1	−3·5	−0·6	−2·0	+0·3	−1·4	−1·1	−0·6	−1·1	−1·1	−0·3	−1·2	−0·8
	Hassan	+0·6	+0·5	−0·2	−1·2	+0·8	−0·3	+0·1	+0·3	−0·8	−1·1	−0·7	−1·1	−0·3
	Mysore	0	+1·4	+2·2	−0·1	+0·9	−0·1	−0·1	+0·4	−0·2	−0·9	−0·6	+0·3	+0·3
	Madras	−1·2	−0·1	+1·4	+1·0	0	−0·8	−1·6	−0·8	−0·5	−0·4	+0·1	−1·8	−0·4
	Bellary	+0·2	+0·9	−0·6	−0·7	−0·6	−1·4	−1·3	−0·5	−1·6	−2·3	−0·8	−1·4	−0·8
	Waltair	+2·2	+4·1	+2·8	+1·8	+1·6	+0·7	+1·1	+0·7	+2·1	0	+0·2	+0·6	+1·5
HILL STATION, BALUCHISTAN.	Quetta	+0·4	+1·0	+1·1	−0·4	−0·7	−0·7	−0·5	−1·0	+0·1	+0·3	+0·5	+1·2	+0·1
HILL STATIONS, NORTHERN INDIA.	Leh	−0·1	−0·1	+1·3	−0·9	−1·1	+0·6	−0·8	−1·3	−0·2	−0·3	0	+0·8	−0·2
	Srinagar	+1·4	+1·5	+2·2	+0·3	0	−0·4	−0·8	−1·2	−0·1	−1·0	−1·1	+2·6	+0·3
	Simla (Ridge)	+1·3	+1·9	+2·8	−0·5	−0·8	−1·7	−0·4	−0·9	−1·3	−0·6	−1·2	+0·8	0
	Chakrata	+1·1	+1·5	+1·6	−0·5	+0·3	−1·7	+0·2	−0·8	−0·5	−0·9	−0·3	+0·2	0
	Ranikhet	+1·0	+2·5	+2·2	−0·6	−0·8	−3·2	+0·2	−0·4	+0·2	−1·4	+0·6	−0·3	0
	Katmandu	−0·2	+0·7	+0·6	−0·9	+0·2	−2·1	+0·5	+0·1	+0·2	−1·5	−0·2	−0·6	−0·3
	Darjeeling	+0·5	−0·3	+1·5	+0·6	−0·4	−1·3	−0·7	+0·3	−0·7	+0·1	+1·5	+1·7	+0·2
HILL STATIONS, CENTRAL INDIA.	Mount Abu	+1·4	+0·4	+2·3	0	−0·5	−2·1	+0·4	−0·2	−1·3	+0·1	+1·6	−0·9	+0·1
	Pachmarhi	−0·6	−1·0	+0·5	−1·2	−0·9	−2·7	−0·4	+0·1	−1·6	−1·8	−0·6	−1·2	−1·0
	Chikalda	+0·6	−0·5	+1·8	−0·6	+0·8	−1·4	−1·0	−0·9	0	+0·4	0	−1·3	−0·2
EXTRA-INDIAN STATIONS.	Aden	−1·9	−2·2	−1·4	−0·9	−0·5	−0·9	−1·8	−1·1	−1·5	−1·3	−1·1	−1·3	−1·3
	Perim	−1·3	−1·4	−0·2	−0·8	−1·6	?	−2·4	−1·7	−1·2	−0·8	−0·6	−1·3	?
	Zanzibar	+1·0	+0·1	?	?	?	?	?	?	?	?	?	?	?
	Port Victoria (Seychelles)	−0·7	+0·5	−1·0	+0·6	+0·2	−1·8	−0·1	+0·4	+0·5	−1·0	−1·0	+1·5	−0·2
	Mauritius (Pamplemouses)	+1·9	−0·4	+1·7	+0·5	+1·5	+0·2	+0·9	+0·8	+0·3	−0·3	+1·0	+0·8	+0·7

TABLE XXV.—*Geographical summary of the cloud departure data of Table II in the Monthly Weather Reviews of 1905.*

METEOROLOGICAL AREA.	Number of stations.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
North-West Himalayas	5	+0·9	+1·5	+2·0	−0·4	−0·5	−1·3	−0·2	−0·9	−0·4	−0·8	−0·4	+0·8	0
Sikkim Himalayas and Nepal	2	+0·2	+0·2	+1·1	−0·2	−0·1	−1·7	−0·1	+0·2	−0·3	−0·7	+0·7	+0·6	0
Punjab Plains	3	+0·5	0	+0·4	−1·1	−1·1	−1·5	−1·7	−2·7	−0·4	−0·4	−0·6	+0·1	−0·7
Gangetic Plain	3—4	+0·8	+1·6	+2·1	−0·5	−0·5	−1·5	−1·0	−0·8	−0·3	−0·7	+0·3	+0·1	0
Western Rajputana	4	+1·0	+0·3	+1·2	−0·1	−0·7	−1·1	0	−0·9	−0·8	+0·5	+0·9	−0·2	0
Eastern Rajputana and Central India	1	+0·6	+1·1	+2·1	−0·3	−0·4	−2·9	−0·3	−3·8	+0·8	−0·3	+0·1	−1·1	−0·4
Nerbudda Valley	1	+0·5	−0·3	+0·3	−1·0	−0·4	−2·5	−1·5	−2·6	−1·5	−0·7	+0·1	−1·1	−0·9
Chota Nagpur	1	+1·8	+0·8	+2·6	+0·2	+0·2	+0·4	+0·3	−0·7	+0·1	−1·7	−0·3	−0·8	+0·2
Lower Bengal	2	+1·1	+0·9	+2·5	+0·7	+0·4	−1·1	+0·3	−0·1	+0·1	+0·1	−0·9	−0·5	+0·3
Orissa	1	+1·0	+1·8	+2·8	+1·4	+0·3	−0·6	+0·3	0	+1·1	+1·0	0	+0·2	+0·8
Central Provinces (South) and Berar	1	+0·4	−0·5	+1·0	−0·9	−0·2	−2·1	−0·5	0	−0·5	−1·1	+0·1	−1·1	−0·5
Konkan	2	+0·8	−0·3	+0·4	−0·9	−0·3	−1·7	−0·7	−0·2	−1·3	−0·6	+0·7	−0·4	−0·4
Deccan, Hyderabad and Mysore	7	+0·5	+0·4	+0·2	−0·5	+0·7	−0·7	−0·6	+0·1	−0·6	−1·0	−0·2	−0·8	−0·2
East Coast and Carnatic	3	+0·4	+1·5	+1·6	+1·3	+0·8	+0·2	−0·2	−0·1	+0·8	−0·2	+0·1	−0·7	+0·5
Arakan and Pegu	4	+0·2	−0·2	+0·4	−1·0	−1·2	−0·5	−0·1	−0·3	−0·5	−0·3	−1·6	−0·6	−0·5
Bay Islands	2	0	+0·3	+1·2	0	+0·5	+0·8	−0·1	−0·6	+0·1	+0·9	−0·9	−0·5	+0·1
Extra-Tropical India	22—23	+0·8	+0·8	+1·6	−0·4	−0·5	−1·4	−0·5	−1·1	−0·4	−0·4	0	+0·1	−0·1
Tropical India	24	+0·4	+0·2	+0·8	−0·4	+0·1	−0·8	−0·4	−0·1	−0·3	−0·5	−0·3	−0·7	−0·2
Whole India	46—47	+0·6	+0·5	+1·2	−0·4	−0·2	−1·1	−0·4	−0·6	−0·3	−0·5	−0·2	−0·4	−0·2

TABLE XXVI.—*Departure of the mean monthly and annual cloud amount from normal in the nine meteorological provinces of India in 1905.*

METEOROLOGICAL PROVINCE.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
Burma Coast and Bay Islands	−0·1	0	+0·5	−0·6	−0·8	+0·3	0	−0·3	−0·2	+0·2	−1·4	−1·1	−0·3
Bengal and Orissa	+1·2	+0·9	+2·3	+0·5	−0·1	−1·2	+0·2	−0·2	+0·1	+0·2	−0·8	−0·1	+0·3
Gangetic Plain and Chota Nagpur	+1·5	+1·0	+2·9	−0·1	0	−1·2	+0·2	−0·1	+0·3	−1·2	+0·5	−0·4	+0·3
Upper Sub-Himalayas	+0·5	+1·1	+1·2	−0·8	−0·8	−1·3	−1·7	−2·2	−0·6	−0·6	+0·5	0	−0·5
Indus Valley and North-West Rajputana	+1·0	+0·2	+0·4	−0·3	−0·6	−0·4	−0·5	−0·9	+0·2	+0·6	+0·3	+0·6	0
East Rajputana, Central India and Gujarat	+0·5	+0·4	+2·0	−0·4	−0·8	−2·5	+0·1	−2·7	−0·6	−0·3	+0·5	−1·1	−0·4
Deccan	+0·7	−0·2	+0·5	−0·5	−0·5	−1·5	−0·6	−0·1	−0·4	−0·9	+0·3	−0·9	−0·3
West Coast	+0·8	−0·3	+0·4	−0·9	−0·3	−1·7	−0·7	−0·2	−1·3	−0·6	+0·7	−0·4	−0·4
South India	+0·3	+0·9	+0·8	0	+0·6	−0·4	−0·4	−0·1	+0·2	−0·9	−0·3	−0·8	0

I.—The cold weather period.—This was an unusually cloudy period throughout the whole country with the apparent exception of Berar. The abnormal cloudiness was most marked over the tract of country extending from Rajputana eastwards to Assam. The abnormal features of the cloud distribution were generally but not invariably coincident with those of rainfall :—

Province or Division.	Departure of mean 8 hrs. cloud amount from normal in		
	January.	February.	Period, January and February.
Burma	+0·5	+0·3	+0·4
Assam	+1·5	+1·1	+1·3
Bengal	+1·8	+0·7	+1·3
Orissa	+1·7	+1·9	+1·8
Bihar	+1·4	+1·3	+1·4
Chota Nagpur	+1·1	+1·0	+1·1
United Provinces of Agra and Oudh	+0·7	+1·4	+1·1
Punjab	+0·6	+0·8	+0·7
North-West Frontier Province	+1·2	−0·3	+0·5
Sind	+0·7	+0·9	+0·8
Rajputana	+0·8	+1·3	+1·1
Gujarat	+0·8	0	+0·4
Central India	+2·2	+1·2	+1·7
Central Provinces	+1·3	0	+0·7
Berar	+0·2	−0·3	−0·1
West Coast	+0·9	+0·3	+0·6
Bombay Deccan	+0·7	−0·1	+0·3
Hyderabad	+0·3	+0·3	+0·3
Mysore	+0·6	+1·2	+0·9
Madras Coast	−0·2	+1·1	+0·5
Madras Deccan	+0·8	+1·1	+1·0
South India	+0·4	+1·4	+0·9

In Baluchistan, Kashmir and the western Himalayas the cloud proportion exceeded considerably that of an average winter season, but in the eastern Himalayas it fell short :—

Station.	Departure of mean 8 hrs. cloud amount from normal in		
	January.	February.	Period, January and February.
Quetta	+0·4	+1·5	+1·0
Mussree	+0·2	+0·2	−0·1
Gilgit	+2·9	+0·5	+1·2
Srinagar	+0·8	+2·1	+1·5
Simla	+0·6	+0·6	+0·6
Leh	+0·7	+0·8	+0·8
Chakrata	+0·6	+1·6	+1·1
Ranikhet	+1·0	+2·2	+1·6
Darjeeling	−0·1	+1·1	−0·6

II.—The hot weather period.—The cloud distribution of the period resembled more closely that of relative humidity rather than that of rainfall. On the mean of the period there was more than the average proportion of cloud over practically the whole of northern India, and in a modified degree this feature was shared by a large part of the Peninsula, the only important exceptions being the Deccan, Hyderabad and Berar. The greatest excess occurred in Central India, where it averaged 1·8 ; but over Chota Nagpur, the United Provinces, Orissa, Bengal and Assam also the normal amount of cloud was moderately exceeded :—

Province or Division.	Departure of mean 8 hrs. cloud amount from normal in			
	March.	April.	May.	Period, March to May.
Burma	+1·2	−1·0	−1·4	−0·4
Assam	+1·6	−0·2	0	+0·5
Bengal	+2·0	−0·2	−0·3	+0·5
Orissa	+1·8	+0·1	−0·2	+0·6
Bihar	+1·2	−0·4	−0·4	+0·1
Chota Nagpur	+2·3	+0·5	−0·5	+0·8
United Provinces of Agra and Oudh.	+1·7	−0·2	−0·1	+0·5
Punjab	+1·7	−0·8	−0·9	0
North-West Frontier Provinces.	+1·1	−0·2	+0·1	+0·3
Sind	+0·7	+0·2	−0·3	+0·2
Rajputana	+1·9	−0·4	−0·9	+0·2
Gujarat	+1·6	−0·2	−1·3	0
Central India	+3·5	+0·8	+1·1	+1·8
Central Provinces	+0·8	−0·7	−0·1	0
Berar	+1·2	−1·3	−1·1	−0·4
West Coast	−0·3	−0·7	+1·2	+0·1
Bombay Deccan	+0·5	−1·2	−0·1	−0·3
Hyderabad	−0·4	−0·9	+0·4	−0·3
Mysore	+0·8	−0·8	+0·4	+0·1
Madras Coast	+0·6	+0·5	−0·1	+0·3
Madras Deccan	+0·1	0	−0·1	0
South India	0	+0·2	+0·6	+0·3

The data indicate that the abnormal cloudiness was, except in a few districts, shown almost entirely in the month of March, the succeeding two months being on the whole less clouded than usual.

Conditions were somewhat different in Persia and Afghanistan, where the cloud proportion was high all through the period instead of only in March. In Baluchistan and

the western Himalayas, on the other hand, April and May were characterized by less cloud than usual :—

Station.	Departure of mean 8 hrs. cloud amount from normal in			
	March.	April.	May.	Period, March to May.
Baghdad	+3·0	+1·1	+1·0	+1·7
Bushire	+1·1	+0·9	+0·7	+0·9
Chaman	+0·1	−0·3	−0·5	−0·2
Quetta	+1·6	−0·6	−0·4	+0·2
Kabul	+0·3	+1·2	+0·8	+0·8
Murree	+0·8	−1·9	−0·7	−0·6
Simla	+2·0	−1·1	−0·4	+0·2
Leh	+1·8	0	−0·7	+0·4
Chakrata	+1·3	−0·6	+1·3	+0·8
Darjeeling	+0·3	−0·6	+1·1	+0·3

III.—The South-west monsoon period.—As is usually the case during the rains, the departures of cloud amount from the normal agreed fairly with those of rainfall. Thus the proportion of cloud was low over by far the greater part of the country ; it was lowest over an area including Rajputana, the Punjab, Sind and the Bombay Deccan and coinciding roughly with the zone of maximum deficiency of rainfall :—

Province or Division.	Departure of mean 8 hrs. cloud amount from normal in				
	June.	July.	August.	September.	Period, June to September.
Burma	+0·8	+0·2	0	+0·4	+0·4
Assam	−0·4	+0·5	+0·4	−0·2	−0·2
Bengal	−1·2	−0·4	0	−0·1	−0·4
Orissa	−1·1	−0·3	−1·0	+0·7	−0·4
Bihar	−2·1	−0·6	+0·3	+0·9	−0·4
Chota Nagpur	−1·0	+0·3	−0·4	+0·7	−0·1
United Provinces of Agra and Oudh.	−2·4	−1·2	−0·4	0	−1·0
Punjab	−1·8	−1·5	−2·3	−0·4	−1·4
North-West Frontier Province.	−0·5	−1·7	−1·7	+0·6	−0·8
Sind	−1·1	−1·6	−1·7	−0·4	−1·2
Rajputana	−2·4	−1·1	−3·1	+0·4	−1·6
Gujarat	−0·4	−0·4	−2·0	−0·8	−0·9
Central India	0	+1·3	+0·9	+1·8	+1·0
Central Provinces	−1·6	−0·6	−0·7	+0·3	−0·7
Berar	−2·4	−0·5	+0·6	+0·9	−0·4
West Coast	−0·7	−0·9	+0·3	−0·8	−0·5
Bombay Deccan	−2·0	−1·1	−0·5	−1·5	−1·3
Hyderabad	−0·5	−0·9	+0·5	−1·5	−0·6
Mysore	−0·8	−0·2	+0·4	−0·7	−0·3
Madras Coast	−1·0	−1·4	−0·9	−0·2	−0·9
Madras Deccan	−0·4	−1·9	0	−0·3	−0·9
South India	−0·3	−1·8	−1·1	−0·9	−1·0

Cloud was as largely in defect at the hill stations in north west India and the Peninsula as at the adjacent plains :—

Station.	Departure of mean 8 hrs. cloud amount from normal in				
	June.	July.	August.	September.	Period, June to September.
Quetta	−0·6	−0·6	−1·0	+0·3	−0·5
Gilgit	−0·3	−1·5	−2·1	−0·7	−1·2
Srinagar	−3·0	−1·6	−0·7	−0·7	−2·0
Simla	−2·5	−0·2	+0·4	−0·7	−1·0
Leh	+1·0	+0·2	−0·4	−0·2	+0·2
Chakrata	−1·4	+1·9	+0·7	+0·3	+0·4
Ranikhet	−4·4	−0·8	−1·2	+1·1	−1·3
Darjeeling	+0·6	−0·6	+0·8	+0·1	+0·2
Pachmarhi	−2·8	0	0	−0·7	−0·9
Wellington	−3·2	−1·0	−0·3	+1·2	−0·8

IV.—The retreating south-west monsoon period.—

(*a*) Cloud was very irregularly distributed during this period over northern India. It was in excess at its eastern and western limits and in defect in the intervening zone, including the Punjab, Rajputana, the United Provinces, Bihar and Chota Nagpur.

(*b*) Skies were less clouded than usual during the period in the Peninsula and Burma, particularly

in December. The cloud proportion, on the other hand, was unusually high in Central India :—

Province or Division.	Departure of mean 8 hrs. cloud amount from normal in			
	October.	November.	December.	Period, October to December.
Burma	−0·1	−1·2	+0·4	−0·6
Assam	+1·0	+0·2	+1·8	+1·0
Bengal	0	+0·2	+1·0	+0·3
Orissa	+0·1	−0·4	+0·3	−0·1
Bihar	−1·5	+0·2	+0·6	−0·4
Chota Nagpur	−1·4	−0·6	−0·3	−0·8
United Provinces of Agra and Oudh	+0·5	0	+0·5	−0·3
Punjab	−0·3	−0·9	+0·1	+0·4
North-West Frontier Province	−0·2	+0·1	+0·8	+0·2
Sind	+0·9	+0·1	+0·1	+0·3
Rajputana	+0·1	−0·2	−1·1	−0·4
Gujarat	+0·7	+1·4	−0·7	+0·5
Central India	+1·3	+2·2	+0·3	+1·3
Central Provinces	−0·6	+0·8	−0·6	−0·1
Berar	+0·3	+0·7	−1·0	0
West Coast	+0·4	+1·2	−0·1	+0·5
Bombay Deccan	−0·6	+0·7	−0·6	−0·2
Hyderabad	−0·3	+0·1	−0·4	−0·2
Mysore	−0·5	+0·1	−0·5	−0·3
Madras Coast	−0·8	−0·3	+0·6	+0·6
Madras Deccan	−0·8	0	−0·4	−0·4
South India	−0·9	+0·8	−0·9	+0·3

These departures were parallel with those of rainfall, the only notable exceptions being Sind, Gujarat and Central India, where, in spite of the shortness of rainfall, the proportion of cloud was above the average.

(*c*) The amount of cloud was greater than usual in Persia and Baluchistan and about normal in the western Himalayas :—

Station.	Departure of mean 8 hrs. cloud amount from normal in			
	October.	November.	December.	Period, October to December.
Bushire	+0·1	−0·5	+1·7	+0·4
Jask	+2·0	+2·2	+3·7	+2·6
Chaman	−0·5	−0·9	+0·8	−0·2
Quetta	−0·2	−0·3	+1·6	+0·4
Murree	−0·6	−1·9	+0·3	−0·7
Gilgit	−0·6	+0·3	+0·8	+0·2
Srinagar	−1·1	−1·4	+1·7	−0·3
Leh	−0·3	−0·9	+0·8	−0·1
Chakrata	−0·8	−0·1	−0·6	−0·5
Darjeeling	−0·2	+0	+1·8	+0·6

The year.—On the mean of the whole Indian area the cloud proportion was high from January to March and low during the remainder of the year. The excess of cloudiness was greatest in March, the rainiest month of the year relatively to the normal; while the defect was most marked in June, July and August, in which months the rainfall was unusually scanty. On the whole 1905 had rather less cloud than usual.

The statement below shows the departure of the mean amount of cloud in the Indian area, annually during the period 1875-1905 :—

Year.	Amount of Departure.
1875	0
1876	−0·2
1877	+0·3
1878	+0·1
1879	−0·1
1880	−0·1
1881	−0·3
1882	0
1883	+0·1
1884	−0·1
1885	+0·2
1886	+0·2
1887	−0·1
1888	−0·2
1889	+0·1
1890	+0·2
1891	+0·1
1892	+0·1
1893	+0·5
1894	+0·5
1895	+0·1
1896	−0·2
1897	0
1898	−0·2
1899	−0·3
1900	+0·2
1901	+0·1
1902	−0·1
1903	−0·1
1904	−0·3
1905	−0·2

Snowfall.

A.—The cold weather of 1904-05 and the succeeding hot weather.—The snowfall during this period showed the following characteristics:—

(1) The winter commenced earlier than usual in the mountain regions to the north and west of upper India and apparently lasted longer than usual over a large part of that area.

(2) The precipitation in Baluchistan was heavier than usual and occurred chiefly in January and February.

(3) The snowfall was much above the average in the Afghan mountain districts in the first three months of the year. Occasional falls were also received in April and about the middle of May, but they were in no way remarkable.

(4) In Kashgaria and the Russian Pamirs the winter was unusually severe and there was at the end of May an abnormally large accumulation of snow in the latter area.

(5) The precipitation in Chitral was more or less below the normal thrughout the period January to April. The deficiency was most marked in April when it amounted to about 70 per cent.

(6) The precipitation in Gilgit was much above the normal in March and May and in slight defect in January, February and April.

(7) There were heavy falls of snow in Kashmir in the period February to April, and there was hence a large excess of snow in the beginning of May. Occasional falls also occurred in May, but they were apparently local. In Ladak (as represented by Leh) conditions were fairly normal except in March when weather was more disturbed than usual.

(8) In the Punjab Himalayas moderate to heavy snow fell in the first four months of the year and light snow in May. Snow lay 18 feet deep on the Sach pass towards the end of May. The snowline in Pangi was at a much lower elevation than usual at the close of May.

(9) The data for the Kumaon Himalayas show that the snowfall there up to the end of May was much above the normal.

(10) The information for the Assam Himalayas, although very meagre, appeared to indicate that over the hills bordering Sadiya the fall was not only unusually heavy, but also descended to a much lower level than usual.

(11) The available information hence sufficed to establish that notwithstanding the prevalence of fairly quiet conditions during the greater part of May, the snow had accumulated to a greater depth in parts of the western Himalayas and covered a larger area than is usual at the beginning of June.

B.—The south-west monsoon period, June to September.—During June the snowfall near Chitral was light: but on the higher ranges of the Punjab and Kashmir Himalayas there occurred one heavy fall and several lighter ones. In July this was repeated and the total fall of the two months measured about six feet on the Sach pass and seven feet on the mountains near Dras. During the storm of the 6th June the snowline descended to 9,000 feet in the Kulu hills and during that of the 13th July to 11,000 feet in the Chamba hills. In the neighbourhood of Gilgit and Leh the accumulations of snow were disappearing in a satisfactory manner and the road to Yarkand was open. In August little or no snow fell except locally in Kumaon where the Nuwe pass received a total fall of $7\frac{1}{2}$ feet. In September there were several falls in Kashmir, Kumaon and the Simla hills, the total fall being above the average in the first two areas. Much snow was reported to have fallen about the middle of the month on the passes leading into Yarkand.

C.—The period October to December.—

(*a*) There were no heavy falls in October, although the total fall of the month exceeded the normal on the Sufed Koh; cold-weather conditions were delayed in Kashmir.

(*b*) In November the snowfall was heavier than usual on the Sufed Koh, the hills to the north of Kurram and on the western ranges in Kashmir; it was normal or below it in Ladak and the Punjab Himalayas. The snowline descended as low as 7,500 feet in the Simla hills on the 23rd of November.

(*c*) In December several falls occurred during the last twenty days of the month. The total fall was on the whole lighter than usual in the western Himalayas but exceeded the normal in Afghanistan, Baluchistan and the mountain ranges of the north-west frontier.

The snowline was at an elevation of about 4,000 feet in Chamba during the last week of the month.

Rainfall.

The rainfall data of India are now issued in a separate volume. The fifteenth volume, that of 1905, contains the whole rainfall data of 2,546 stations, which are there classified under their respective administrative divisions according to the following scheme:—

Province.	Number of stations
Burma	183
Assam	117
Bengal, Bihar, Chota Nagpur and Orissa	401
United Provinces of Agra and Oudh	275
Punjab	188
North-West Frontier Province	33
Bombay	284
Madras	414
Coorg	10
Central Provinces and Berar	148
Mysore	77
Baluchistan	55
Kashmir	38
Rajputana	156
Central India	77
Hyderabad (Deccan)	22
Travancore	54
Cochin	3
Pudukkottai	11

The information includes monthly statements of—

(*a*) the actual rainfall, day by day, of all the rainfall stations;

(*b*) the total rainfall of the month;

(*c*) the number of rainy days during the month;

(*d*) the average of normal rainfall of the month of all stations for which rainfall data of at least five years are available;

(*e*) the average or normal number of rainy days of the month for all stations for which rainfall data of five years or upwards are available;

(*f*) the accumulated rainfall (up to the date of each statement) throughout each of the seasons into which the year is divided.

Symons's rain-gauges are now used at all rain-gauge stations, with the exception of those in Mysore. The hour of measuring rainfall is 8 A.M. throughout India, and the amounts registered give the rainfall of the previous 24 hours, and hence generally of the previous civil day.

Table XXVII gives the departures of the monthly and annual rainfall in 1905 of 529 representative stations in India, including Baluchistan and Burma, as well as of 16 extra Indian stations.

The four tables (Tables XXVIII to XXXI) give summaries of the rainfall data of the year. In the first two tables (Tables XXVIII and XXIX) the summaries are drawn up in the form that was used for many years in the Annual Reports issued by the Department. In the two succeeding tables (Tables XXX and XXXI) the actual average rainfall data (derived from the returns of 2,546 rain-gauge stations in India) are given for the 57 meteorological districts into which the Empire is divided for the comparison of crops and rainfall for the four periods into which the year may be arranged. The four periods are as follows:—

1st.—From January 1st to February 28th, which forms the period of the cold-weather rains of upper India.

2nd.—From March 1st to May 31st, which includes the hot season, when rain occurs mainly in the coast districts, and in Assam during thunderstorms.

3rd.—From June 1st to September 30th, which forms the period of the south-west monsoon rains proper.

4th.—From October 1st to December 31st, which includes the period of the so-called north-east monsoon rains of the Peninsula, more especially of the Coromandel coast districts.

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1905 from the average of past years.*

Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November	December.	Total.
Baluchistan.	Kalat	+1·84	—0·10	+0·74	—0·14	—0·26	—0·17	—0·48	—0·45	—0·04	—0·05	—0·34	—2·54	+3·09
	Pishin	+2·14	—0·14	+1·40	—0·62	—0·21	—0·03	—0·06	—0·16	—0·01	—0·05	—0·67	+3·81	+5·40
	Chaman	+2·08	—0·27	+0·28	—0·60	—0·08	—0·09	—0·11	0	0	—0·04	—0·56	+4·40	+5·01
	Quetta	+3·14	+1·37	+0·68	—0·67	—0·43	—0·18	—0·47	—0·51	—0·11	—0·08	—0·31	+2·63	+5·06
	Mach (Ry. Station)	+3·33	+0·95	+0·15	—0·29	—0·06	—0·56	—0·62	—1·15	—0·03	—0·34	—0·23	+1·26	+2·41

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1905 from the average of past years*—contd.

PROVINCE.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
BALUCHISTAN—*contd.*	Beleli	+3·59	+2·41	+2·27	—0·57	+0·06	—0·14	+1·01	—0·40	—0·03	—0·06	—0·84	+2·01	+9·31
	Kuchelak	+1·93	—0·64	+1·85	—0·38	+0·85	—0·08	—0·13	—0·16	—0·12	—0·10	—0·81	+3·02	+5·23
	Fort Sandeman	+1·11	—0·02	—0·07	—0·67	—0·27	—0·97	—0·73	—1·00	—0·02	+0·06	—0·24	+1·04	—1·78
	Bostan	+2·32	+1·35	+2·41	0	—0·01	—0·18	—0·06	—0·16	—0·03	—0·09	—0·68	+2·18	+7·05
	Yarookarez	+2·69	+0·97	+0·86	—0·07	—0·07	—0·04	+0·74	—0·15	0	—0·05	—0·48	+1·45	+5·79
	Syed Hamed	+2·37	—0·41	+1·45	—0·15	—0·03	—0·01	0	0	0	—0·07	—0·92	+3·33	+5·56
	Gulistan	+3·99	—0·60	+0·15	—0·11	—0·14	—0·04	—0·03	0	—0·04	—0·06	—0·85	+4·32	+6·64
	Killa Abdulla	+3·65	—0·15	+1·95	—0·50	—0·13	—0·03	+0·34	—0·02	—0·02	—0·10	—1·28	+4·45	+8·16
	Khanai	+2·33	+3·01	+2·92	—0·54	—0·04	—0·18	—0·47	—0·13	0	—0·07	—0·64	+2·20	+8·69
	Fuller's Camp	+2·18	—0·37	+1·53	—1·04	—0·24	—0·14	—0·29	—0·11	—0·06	—0·04	—0·86	+3·44	+4·00
	Kachh	+5·01	—0·17	+0·86	—0·89	—0·35	—0·26	+0·12	—0·15	—0·11	—0·07	—0·72	+1·96	+5·23
	Mudgorge	+3·52	+1·57	+0·13	—0·60	+0·47	—0·22	+0·08	—0·25	+0·25	+0·01	—0·70	+2·18	+6·44
	Mangi	+3·01	+0·46	+0·25	—0·48	+0·51	—0·64	+0·08	—0·25	+0·44	—0·06	—0·58	+2·17	+4·91
	Dirgi	+2·74	+0·38	+0·08	0	—0·18	—0·38	—0·33	—0·28	—0·30	—0·01	—0·63	+2·28	+3·37
	Khost	+0·96	—0·92	+0·13	+0·17	—0·24	—0·43	—1·16	—0·65	—0·20	—0·06	—0·96	+1·20	—2·16
	Shahrig	+4·37	0	—0·01	—0·20	—0·38	—0·68	—1·99	—1·98	—0·26	+0·04	—0·67	+1·14	—0·55
	Nasak	+2·88	+0·16	—0·33	—0·20	—0·25	—1·12	—0·16	—2·88	+0·19	—0·08	—0·71	+0·14	—1·76
	Harnai	+2·86	+0·19	—0·25	—0·16	—0·17	—1·10	—1·57	—3·04	—0·60	—0·07	—0·52	+0·92	—3·51
	Sunari	+2·84	+0·52	—0·23	—0·28	—0·18	—0·88	—2·50	—3·24	—0·61	+0·01	—0·50	+0·92	—4·43
	Spintangi	+3·18	—0·08	+0·03	—0·13	—0·19	—0·72	—1·26	—2·68	—0·24	0	—0·33	—0·74	—3·16
	Mushkaf	+2·57	+0·18	—0·27	—0·03	—0·05	—0·17	—0·60	—1·15	—0·10	0	—0·07	+0·31	+0·62
	Baber Kach	+4·04	+0·19	—0·14	—0·16	—0·07	—0·31	—0·41	—1·60	—0·31	—0·03	—0·27	+0·39	+1·32
	Loralai (Hospital)	+1·73	+0·50	—0·80	—0·42	—0·59	+0·26	—1·12	—1·18	+0·77	—0·03	—0·30	+0·55	—0·63
	Nari	+2·72	—0·03	—0·30	—0·08	—0·06	—0·25	—1·26	—1·19	—0·23	—0·01	—0·17	—0·01	—0·87
	Sibi	+2·53	+0·43	—0·09	—0·11	+0·01	—0·22	—0·39	—1·33	—0·20	0	0	+0·02	+0·48
	Kolepur	+4·13	+3·27	+4·32	—0·54	—0·17	—0·09	+0·46	—0·49	—0·08	—0·03	—0·31	+2·17	+12·58
	Hirok	+3·71	+1·65	+1·41	—0·52	—0·10	—0·36	—0·53	—0·94	—0·21	—0·07	—0·97	+1·76	+4·53
	Mitri	+2·54	+0·31	—0·22	—0·29	—0·01	—0·22	—0·37	—0·73	—0·06	—0·01	—0·15	—0·07	+0·72
	Lindsay	+1·71	+0·33	—0·17	—0·07	—0·13	—0·16	—0·66	—0·86	—0·22	0	—0·12	—0·03	—0·38
	Bellput	+1·17	+0·59	0·03	—0·07	+0·12	—0·17	+0·22	—1·01	—0·08	0	—0·18	—0·27	+0·32
	Nuttal	+0·63	—0·07	—0·14	—0·10	—0·22	—0·09	—1·07	—0·86	—0·15	0	—0·35	—0·40	—3·42
	Temple Dera	+0·29	+0·53	+0·06	+0·13	—0·08	—0·18	—0·26	—1·00	—0·04	0	—0·18	—0·28	—1·61
	Jhatput	+0·29	+0·05	—0·07	—0·01	—0·14	—0·17	—0·37	—0·85	—0·08	0	—0·18	—0·14	—1·67

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1905 from the average of past years*—contd.

Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Baluchistan—*concld.*	Sangal	+3·69	−0·27	+0·90	−0·48	−0·10	−0·01	−0·13	−0·03	0	−0·08	−0·51	+3·39	+6·37
	Shulabagh	+1·50	−0·97	+1·26	−0·48	−0·09	−0·02	−0·40	−0·02	0	+0·05	−0·57	+6·25	+6·51
	Panir	+3·68	+0·46	−0·27	+0·06	−0·06	−0·08	−0·63	−0·65	−0·03	−0·01	−0·09	+0·59	+2·90
Punjab and North-West Frontier Province.	Abbottabad	+6·22	+0·18	+3·32	−2·18	−1·01	−2·75	+4·66	+0·91	+3·98	+0·21	−0·81	+4·33	+17·06
	Cherat	?	?	+2·86	−4·68	−0·34	−0·28	−1·44	−3·26	−0·08	+0·26	−0·12	+4·76	?
	Murree (Obsy.)	+6·17	+3·64	+1·14	−0·81	−1·34	−2·14	−1·86	+0·71	+7·23	−1·38	−1·27	+5·21	+15·30
	Poo	−0·94	−2·27	+2·78	−1·31	+0·95	+0·52	−0·66	−0·59	+0·13	−0·49	−0·43	+0·24	−2·01
	Dharamsala	+3·87	+2·89	+4·18	−1·95	?	?	−19·55	−9·73	−6·42	−1·24	−0·35	−0·55	?
	Kailang	−1·18	−2·23	+3·01	−1·28	+2·60	+0·36	+1·06	−1·43	+2·65	−0·46	−1·51	+0·10	+2·69
	Kilba	−2·11	−0·18	+4·03	−1·54	−0·98	−0·45	−1·85	−3·07	−0·77	−1·04	−1·45	+0·04	−9·37
	Simla (Obsy.)	−0·07	+1·60	+1·13	−1·39	−3·12	−6·75	−1·39	−6·27	+0·39	−1·19	−0·39	+0·58	−16·87
	Peshawar (Obsy.)	+0·06	+0·60	+3·01	−1·10	+4·17	−0·27	−1·55	−2·02	+0·85	−0·18	−0·58	+1·99	+1·98
	Kohat	+0·87	+1·28	+1·62	−1·16	−0·33	−0·77	−2·90	−2·77	−1·01	−0·31	−0·63	+2·18	−3·93
	Bannu	+1·63	+0·11	+1·48	−0·87	−0·39	−0·35	−0·67	−2·21	+0·97	−0·12	−0·27	+1·18	+0·49
	Dera Ismail Khan.	+0·53	+0·30	+0·08	−0·07	−0·08	−0·54	+0·35	−1·42	−0·35	−0·10	−0·15	+0·71	−1·34
	Dera Ghazi Khan.	+0·83	+0·54	−0·41	−0·32	−0·25	−0·41	−1·34	−1·23	−0·09	−0·05	−0·11	+0·53	−2·31
	Muzaffargarh	+0·64	−0·08	−0·30	−0·31	−0·30	−0·35	−0·89	−1·42	−0·34	−0·08	−0·08	+0·49	−3·02
	Multan (Obsy.)	+0·56	+0·14	−0·32	−0·27	−0·29	−0·23	−0·94	−1·66	+0·30	−0·07	−0·06	+0·63	−2·21
	Jhang	+0·39	+0·42	−0·13	−0·26	−0·49	−0·58	−2·87	−2·18	−0·03	−0·10	−0·06	+0·22	−5·67
	Montgomery	+0·46	+0·07	−0·04	−0·21	−0·35	−0·58	−0·20	−2·32	+3·81	−0·12	−0·05	+0·14	+0·61
	Shahpur	+0·29	+0·31	−0·24	−0·62	−0·49	−0·59	−1·45	−2·27	+2·03	−0·15	−0·22	+0·42	−3·48
	Rawalpindi	+1·55	+0·58	+0·12	−1·34	−0·70	−1·44	−2·64	−3·96	+1·08	−0·38	−0·64	+1·91	−5·86
	Jhelum	+1·09	−0·51	−0·05	−1·00	−0·50	−1·49	−2·47	−2·26	+2·56	−0·45	−0·24	+0·58	−4·74
	Gujrat	+3·00	+0·67	−0·35	−0·76	−0·52	−1·69	−1·62	−4·39	+3·95	−0·42	−0·22	+0·54	−2·41
	Sialkot (Obsy.)	+4·09	+0·81	+0·35	−1·15	−0·54	−2·19	−3·19	−6·32	+4·12	−0·47	−0·26	+0·86	−3·89
	Gujranwala	+2·14	−0·06	−0·32	−0·70	−0·48	−0·69	−3·43	−4·38	+12·37	−0·39	−0·20	+0·26	+4·12
	Gurdaspur	+1·24	−0·66	+1·48	−0·46	−0·67	−3·57	−1·31	−6·68	+1·48	−0·49	−0·14	−0·47	−10·25
	Lahore	+0·99	−0·01	−0·46	−0·51	−0·77	−3·30	−3·31	−4·88	+7·09	−0·16	−0·11	+0·09	−3·28
	Amritsar	+1·65	−0·02	−0·37	−0·55	−0·80	−1·75	−2·90	−5·61	+6·33	−0·40	−0·18	−0·16	−4·76
	Ferozepore	+1·45	+0·23	+0·22	−0·51	−0·07	−1·48	−1·87	−4·86	+3·24	−0·31	−0·05	−0·20	−4·41
	Jullundar	+0·27	+0·89	0	−0·58	−0·73	−2·59	−4·76	−5·56	+0·10	−0·38	−0·09	−0·27	−13·70
	Hoshiarpur	+0·65	+1·27	+0·61	−0·61	−0·75	−2·80	−3·77	−4·78	−1·10	−0·33	−0·13	−0·99	−12·64
	Ludhiana	+0·75	+0·57	+0·20	−0·65	−0·85	−2·06	−4·02	−3·31	−1·55	−0·66	−0·06	−0·46	−12·10
	Ambala	+0·94	+1·17	+0·69	−0·41	−0·84	−3·11	−6·62	−3·90	+0·39	−0·44	−0·24	−0·27	−11·74

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1905 from the average of past years*—contd.

Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Punjab and N.-W.F. Province—*concld.*	Sirsa	+1·04	−0·16	+0·26	−0·34	−0·41	−2·07	−1·00	−3·64	+2·79	−0·23	−0·02	+0·15	− 3·63
	Hissar	+0·55	+1·68	−0·25	−0·22	−0·41	−1·33	+0·47	−4·10	+1·80	−0·27	−0·07	−0·26	− 2·41
	Rohtak	+0·80	−0·20	−0·14	−0·14	−0·34	−2·49	−3·50	−5·02	−2·05	−0·34	−0·03	−0·51	−13·93
	Delhi (Obsy.)	+0·51	−0·01	−0·40	−0·28	−0·65	−2·25	−3·05	−7·44	−1·19	−0·39	−0·10	−0·43	−15·68
	Gurgaon	+0·25	−0·05	−0·11	+0·39	−0·60	−2·41	−1·64	−5·85	−1·09	−0·34	−0·04	−0·32	−11·81
	Karnal	+1·42	−0·09	+0·27	+0·13	−0·47	−1·85	−7·17	−6·46	+6·69	−0·37	−0·12	−0·11	− 8·13
Sind.	Kurrachee	+0·84	+1·51	−0·16	−0·13	−0·03	−0·47	−2·93	−1·73	−0·64	−0·04	−0·16	+0·01	− 3·93
	Sehwan	+0·67	+0·60	−0·18	+0·41	−0·16	−0·28	−1·73	−2·38	− 0·55	−0·03	−0·12	+0·25	− 3·50
	Tatta	−0·15	+1·20	−0·11	−0·28	−0·01	−0·88	−2·34	−1·79	−0·72	0	−0·19	−0·09	− 5·36
	Hyderabad (Obsy.)	+0·44	+0·71	−0·13	+0·22	−0·12	−0·43	−2·28	−3·08	− 0·32	0	−0·10	+0·05	− 5·04
	Umarkot	−0·02	+0·02	+0·11	−0·08	−0·10	−0·78	−1·72	−3·36	−0·55	−0·14	−0·05	+0·05	− 6·84
	Shikarpur	+0·18	+0·03	−0·35	−0·19	−0·09	−0·10	−1·00	−1·55	−0·18	0	−0·12	−0·03	− 3·40
	Rohri	+0·10	−0·06	−0·26	−0·14	−0·15	−0·22	−1·08	−1·31	−0·24	−0·01	−0·11	−0·14	− 3·62
	Jacobabad	+0·59	+0·27	−0·14	−0·10	−0·15	−0·10	−0·75	−1·25	−0·19	−0·01	−0·12	+0·03	− 1·92
Cutch.	Bhuj	+0·10	−0·11	−0·07	−0·06	−0·13	−2·06	−1·12	−2·49	−1·14	−0·64	−0·08	−0·06	− 7·86
	Rhahpur	−0·06	−0·08	−0·05	−0·08	−0·15	−1·13	+2·64	−3·78	−2·37	−0·46	−0·16	−0·04	− 5·72
	Nagar	−0·14	−0·09	−0·04	−0·04	−0·40	−1·87	+5·28	−5·28	−1·36	−0·24	−0·05	−0·03	− 4·26
Rajputana.	Jaisalmer	+0·01	+0·21	−0·08	−0·12	−0·21	−0·77	−2·28	−2·13	−0·60	0	−0·04	+0·14	− 3·21
	Phalodi	+0·04	+0·01	−0·09	−0·02	−0·27	−0·46	−3·17	−2·48	+1·00	0	0	−0·11	− 5·55
	Bikaner	+0·37	−0·05	−0·09	−0·05	−0·84	−1·41	−2·89	−3·14	+0·60	−0·09	−0·06	−0·13	− 7·78
	Nagar	−0·02	+0·03	−0·03	−0·01	−0·57	−1·97	−3·66	−3·60	+0·06	−0·05	−0·07	−0·22	−10·11
	Didwana	−0·26	+0·55	−0·06	−0·06	−0·49	−1·33	−3·59	−5·42	+0·29	−0·13	−0·13	−0·19	−10·82
	Jhunjhunu	−0·35	+0·67	−0·10	+0·35	−0·51	−2·12	−1·26	−5·08	−0·65	−0·14	−0·07	−0·23	− 9·49
	Khetri	−0·48	+0·07	−0·11	−0·15	−0·48	−1·62	−6·83	−6·89	−1·58	−0·22	−0·15	−0·25	−18·69
	Sikar	−0·37	+0·50	+0·02	−0·10	−0·67	−2·24	−1·47	−5·76	0	−0·20	−0·10	−0·15	−10·54
	Sri Madhopur	−0·21	+0·25	+0·39	+0·05	−0·63	−2·27	−8·31	−6·98	+1·56	−0·05	−0·18	−0·49	−16·87
	Alwar	−0·04	+0·71	+0·42	−0·02	−0·90	−3·31	−6·03	−7·28	−2·42	−0·72	−0·17	−0·37	−20·13
	Bharatpur	+0·33	+0·90	+0·04	−0·10	−0·59	−2·02	−3·72	−7·74	−1·57	−0·35	−0·05	−0·18	−15·05
	Bandikui	−0·49	+0·39	−0·30	−0·09	−0·34	−1·91	−3·72	−5·76	−1·59	−0·09	−0·16	−0·40	−14·57
	Jaipur	−0·26	+0·08	−0·09	+0·23	−0·62	−2·59	−8·50	−6·58	−1·20	−0·21	−0·16	−0·35	−20·25
	Sambhar	−0·14	+0·27	+0·16	+0·59	−0·91	−1·05	−5·40	−5·79	−1·93	−0·29	−0·22	−0·40	−15·13
	Karauli	−0·06	+0·18	−0·15	−0·09	−0·62	−3·37	−6·63	−8·32	−2·37	−0·12	−0·09	−0·34	−21·98
	Lalsot	−0·14	+0·38	+0·02	−0·06	−0·25	−2·98	−5·65	−8·79	−1·53	−0·15	−0·10	−0·17	−19·42
	Tonk	−0·03	−0·12	−0·15	−0·08	+0·04	−2·45	−6·81	−8·77	−0·15	−0·47	−0·07	−0·24	−19·39

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1905 from the average of past years*—contd.

PROVINCE.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	Decembe	TOTAL.
RAJPUTANA—*contd.*	Siwai Madhopur.	—0·12	+0·17	—0·20	—0·10	—0·29	—3·83	—11·02	— 9·27	+0·09	—0·42	—0·10	—0·18	—24·97
	Deoli . .	—0·15	+0·15	—0·03	—0·16	—0·74	—3·76	—7·71	— 9·43	—2·33	—0·39	—0·12	—0·19	—24·86
	Kotah . .	—0·23	+0·02	—0·01	+0·33	—0·78	—3·84	—7·29	— 8·71	—1·73	—0·32	—0·15	—0·31	—23·02
	Jhalrapatan .	—0·01	—0·16	—0·11	+0·23	+0·05	—3·21	—8·62	— 7·28	—1·01	—0·51	—0·23	—0·47	—21·31
	Ajmer . .	—0·16	+0·47	—0·26	—0·08	—0·59	—2·00	—5·20	— 7·07	+0·69	—0·29	—0·20	—0·29	—14·98
	Nasirabad .	—0·17	—0·08	—0·11	—0·06	—0·50	—1·53	—6·30	— 5·79	+0·20	—0·22	—0·18	—0·31	—15·05
	Malpura .	—0·21	+0·18	—0·13	—0·05	—0·16	—1·23	—4·40	— 7·42	+1·80	—0·02	—0·02	—0·26	—11·92
	Beawar .	—0·15	+0·36	—0·14	—0·12	—0·33	—2·30	—4·57	— 5·78	+1·90	—0·17	—0·18	—0·25	—11·73
	Jodhpur .	—0·13	+0·20	—0·03	+0·27	—0·45	—0·76	—2·68	— 4·90	—1·16	—0·19	—0·10	—0·14	—10·07
CENTRAL INDIA.	Pachpadra .	—0·31	+0·45	—0·09	—0·03	—0·67	—1·24	—3·79	— 3·43	+1·66	+0·06	—0·09	—0·12	— 8·02
	Jasol . .	0	+0·19	—0·08	—0·05	—0·52	—1·48	—3·40	— 3·14	+4·25	—0·01	—0·18	—0·08	— 4·50
	Barmer .	0	—0·09	—0·07	—0·06	—0·43	—1·54	—0·99	— 2·85	—0·85	—0·03	—0·11	—0·05	— 7·07
	Pali . .	—0·12	+0·27	—0·09	—0·04	—0·32	—1·87	—3·66	— 4·80	+0·05	—0·08	—0·25	—0·10	—11·01
	Shahpura .	—0·10	+0·11	—0·07	—0·06	—0·52	—3·24	—3·93	— 5·67	—2·80	—0·42	—0·10	—0·24	—17·04
	Erinpura .	—0·17	—0·21	—0·10	—0·05	—0·42	—1·84	—2·25	— 3·32	+3·25	—0·34	—0·19	—0·16	— 5·80
	Sirohi . .	—0·15	—0·14	—0·08	—0·15	—0·75	—3·39	—2·13	— 4·52	+1·26	—0·07	—0·22	—0·13	—10·47
	Mount Abu .	—0·27	—0·31	—0·10	—0·08	—0·97	—5·38	—8·56	—20·78	—4·83	—1·46	—0·28	—0·22	—43·24
	Kotra . .	—0·11	—0·19	+0·11	—0·04	—0·18	—2·99	—0·15	— 9·43	+2·12	—0·54	—0·18	—0·15	—11·73
	Udaipur .	—0·08	—0·15	+0·08	—0·11	—0·50	—1·95	+3·20	— 6·91	—1·23	—0·37	—0·18	—0·17	— 8·37
	Partabgarh .	—0·18	—0·10	+0·38	—0·03	+0·01	—4·29	+0·17	—10·06	—3·09	—0·64	—0·25	—0·26	—18·34
	Kherwara .	—3·09	—0·16	+0·26	—0·02	—0·36	—3·92	+4·40	— 7·87	—0·80	—0·49	—0·15	—0·11	— 9·31
	Banswara .	—0·26	—0·15	+0·05	—0·01	—0·28	—4·73	+0·22	—10·36	—2·03	—0·67	—0·22	—0·36	—18·80
	Neemuch (Obsy.)	—0·19	—0·15	+0·34	—0·13	—0·35	—4·54	—5·53	— 4·79	+1·21	—0·64	—0·17	—0·27	—15·21
	Sirdarpore .	—0·16	—0·14	—0·02	—0·02	—0·17	—4·13	+5·96	— 3·97	—4·38	—1·00	—0·20	—0·14	— 8·37
	Agar . .	—0·25	—0·22	—0·03	—0·06	—0·30	—5·42	—2·32	— 7·49	—0·80	—0·61	—0·17	—0·38	—18·05
	Nimlam .	—0·17	—0·18	+0·01	—0·03	—0·38	—3·76	+4·59	— 7·87	—0·98	—0·87	—0·24	—0·24	—10·12
	Indore . .	—0·25	—0·23	—0·05	—0·17	—0·09	—3·81	+7·88	— 1·95	—4·14	—1·09	—0·24	—0·18	— 4·32
	Bhopal(Sehore)	—0·45	+0·16	—0·14	—0·05	—0·19	—4·55	—2·18	— 5·50	+0·82	—1·15	—0·38	—0·43	—14·04
	Goona . .	+0·19	—0·19	—0·14	—0·12	—0·40	—6·49	—7·17	— 7·95	+1·76	—0·43	—0·34	—0·32	—21·60
	Nowgong .	+0·05	—0·33	+0·03	—0·10	—0·14	—6·58	—8·90	— 7·57	—3·23	—1·04	—0·18	—0·12	—28·11
	Sutna . .	+0·84	—0·34	+0·59	+0·24	—0·36	—5·82	—7·18	— 0·08	+0·63	—2·04	—0·26	—0·36	—14·14
	Nagode .	+0·05	—0·38	+0·62	+0·17	—0·42	—4·61	—8·92	— 6·24	—2·54	—1·98	—0·17	—0·45	—24·87
	Maihar .	—0·05	—0·46	+0·13	+0·40	—0·40	—6·63	—2·85	— 3·76	+0·08	—1·99	—0·44	—0·20	—16·17
	Rewah .	+0·58	—0·58	+0·68	+0·01	+0·72	—8·27	—7·01	+ 0·43	+0·82	—2·22	—0·29	—0·38	—15·51

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1905 from the average of past years*—contd.

PROVINCE.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
CENTRAL INDIA —*concld.*	Ramnagar	+0·14	−0·53	+0·71	+0·51	+0·02	−8·20	− 1·36	− 5·20	+0·77	−2·08	−0·30	−0·21	−15·73
	Sihawal(Bardi)	+0·33	−0·06	+1·05	−0·08	+0·16	−5·01	+ 7·07	+ 2·63	−0·99	−1·97	−0·48	−0·49	+ 2·16
	Tyonthar	+0·06	−0·14	+1·24	+0·28	−0·24	−5·61	+ 1·30	+ 2·85	+1·72	−2·20	−0·17	−0·49	− 1·40
	Sohagpu	−0·26	−0·49	−0·13	+0·36	+0·29	−7·10	− 2·39	− 5·19	+4·49	−2·25	−0·76	−0·46	−13·80
UNITED PROVINCES.	Chakrata	+6·64	+5·91	+3·14	−0·57	−0·41	−6·64	− 5·22	− 2·62	−0·08	−0·76	−0·09	+0·03	+ 0·23
	Mussooree	+4·54	+7·30	+0·78	−0·16	−1·20	−6·40	−14·48	−19·64	−4·74	−0·95	−0·42	−0·04	−35·41
	Srinagar	+2·29	−0·80	+2·29	+0·11	−1·14	−0·90	− 4·36	− 2·75	−1·48	−0·72	−0·25	+0·06	− 7·65
	Pauri	+2·15	+0·07	+1·42	−0·60	−1·87	−3·43	− 5·81	− 4·30	−1·48	−0·78	−0·10	+0·30	−14·43
	Ranikhet	+2·42	+1·70	+0·90	−0·62	−0·65	−2·37	− 1·61	− 3·24	−1·56	−1·27	−0·28	+0·31	− 9·27
	Almorah	+2·80	0	+1·20	+0·15	+1·34	−2·97	− 1·14	− 1·08	−1·06	−1·03	−0·21	+0·54	− 1·51
	Pithoragarh	+1·20	+0·86	+0·56	−1·04	+1·59	−0·45	− 5·54	− 2·15	−3·26	−1·38	−0·17	−0·34	−11·12
	Naini Tal	+4·47	+1·45	+1·12	−1·55	−0·82	−8·59	+ 3·43	− 2·97	−4·56	−2·04	−0·05	−0·44	−10·55
	Dehra Dun	+1·11	+1·78	+0·78	−0·45	+0·84	−3·85	−14·21	−10·66	+0·67	−0·83	−0·16	+0·32	−24·66
	Saharanpur	+1·17	+1·02	+0·05	+0·32	−0·59	−2·94	− 9·39	− 3·94	−0·32	−0·45	−0·22	+0·29	−15·00
	Roorkee	+0·95	+0·58	+0·35	−0·35	−0·67	−3·07	− 9·03	− 7·41	−1·94	−0·58	−0·20	0	−21·37
	Muzaffarnagar	+0·55	+0·62	−0·28	−0·34	−0·72	−1·98	− 4·17	− 6·71	−1·05	−0·34	−0·11	−0·31	−14·84
	Bijnor	+1·07	−0·36	+1·10	−0·46	−0·06	−2·73	− 1·27	− 5·28	−2·83	−0·45	−0·13	−0·18	−11·58
	Meerut	+1·02	+0·36	−0·40	−0·27	−0·52	−1·21	− 2·87	− 4·79	−2·17	−0·43	−0·08	−0·20	−11·02
	Moradabad	+0·45	+0·56	+0·41	−0·16	−0·46	−3·85	− 9·51	− 3·09	−3·36	−0·81	−0·12	−0·36	−20·30
	Rudarpur	+1·67	+0·66	+0·63	−0·05	−0·46	−5·64	− 2·69	− 4·11	−3·06	−0·98	−0·08	−0·25	−13·76
	Pilibhit	+0·40	+0·56	+0·03	+0·09	−0·94	−5·60	− 7·05	− 6·52	−6·67	−1·08	−0·09	−0·33	−27·20
	Bulandshahr	+0·66	−0·03	+0·64	−0·27	−0·48	−2·66	− 4·23	− 6·76	−3·12	−0·42	−0·07	−0·44	−17·78
	Bareilly	+0·71	+0·86	+0·01	0	−0·20	−5·37	− 6·36	− 5·17	−2·17	−1·16	−0·10	−0·19	−19·11
	Budaun	+0·24	+0·82	+0·46	−0·16	+0·56	−3·01	− 4·51	− 5·01	−1·62	−0·84	−0·10	−0·01	−13·18
	Shajahanpur	+0·71	+0·65	+0·14	−0·16	−0·37	−5·09	− 4·60	− 5·72	−1·70	−1·14	−0·13	+0·03	−17·38
	Aligarh	+0·56	+0·22	+1·10	−0·12	−0·45	−3·06	− 4·27	− 5·66	−2·03	−0·44	−0·04	−0·27	−14·46
	Muttra	+0·94	+0·31	−0·23	−0·05	−0·52	−2·39	− 6·10	− 7·13	−2·90	−0·35	−0·06	−0·27	−18·78
	Agra	+0·35	+0·64	+0·26	−0·16	−0·61	−1·94	− 5·67	− 6·60	−1·37	−0·39	−0·06	−0·26	−15·81
	Etah	−0·19	+0·80	−0·02	−0·09	−0·44	−2·94	− 5·03	− 6·76	−1·16	−0·76	−0·05	−0·29	−16·93
	Mainpuri	+0·01	+1·06	+0·45	+0·04	−0·43	−2·88	− 7·44	− 6·71	+0·69	−0·78	−0·10	−0·37	−16·46
	Farrukhabad	+0·10	+0·54	+0·01	−0·09	−0·33	−3·62	− 2·94	− 6·06	−1·01	−0·96	−0·09	−0·27	−14·72
	Etawah	+0·12	+0·71	−0·37	−0·06	+0·37	−2·69	− 3·17	− 4·91	−1·25	−0·90	−0·08	−0·18	−12·41
	Cawnpore	+0·06	+0·61	+0·19	+0·02	−0·18	−3·59	− 2·90	− 2·97	−0·10	−1·18	−0·13	−0·22	−10·48
	Fatehpur	−0·29	+0·27	+0·40	−0·12	−0·34	−4·01	− 2·18	− 3·80	−0·73	−1·53	−0·17	−0·28	−12·78

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1905 from the average of past years*—contd.

PROVINCE.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
UNITED PROVINCES—*concld.*	Jalaun (Orai)	+0·05	+0·24	+0·35	−0·01	−0·14	−3·20	−7·03	− 8·11	−2·80	−0·63	−0·05	−0·24	−21·57
	Hamirpur	−0·20	+0·09	+0·60	−0·09	−0·21	−4·01	−9·15	− 4·48	−3·87	−1·05	−0·17	−0·34	−22·88
	Banda	−0·27	−0·23	+0·27	−0·03	+0·13	−3·82	−5·42	− 5·10	−3·06	−1·40	−0·36	−0·28	−19·57
	Allahabad	−0·15	−0·28	+0·19	+0·04	−0·29	−4·50	−0·42	− 0·87	−1·71	−2·40	−0·25	−0·23	−10·87
	Basti	+0·04	+0·38	+0·17	−0·09	+0·16	−5·41	+3·92	+ 9·03	−0·97	−2·74	−0·05	+0·49	+ 4·93
	Gorakhpur	−0·24	+0·85	+0·21	−0·09	−0·14	−6·87	−0·15	+14·70	−1·95	−1·83	−0·17	−0·13	+ 4·19
	Azamgarh	−0·20	+0·41	+0·10	−0·05	+0·22	−5·31	+2·66	+ 6·27	−0·17	−1·93	−0·10	−0·11	+ 1·79
	Jaunpur	−0·23	+0·42	+0·81	−0·12	+0·89	−5·13	−1·61	+ 3·29	−0·20	−3·13	−0·14	−0·14	− 5·29
	Benares	−0·01	−0·16	+0·42	+0·11	+0·56	−4·91	+0·05	+ 5·44	+7·51	−2·18	−0·17	−0·17	+ 6·49
	Mirzapur	−0·03	−0·16	+0·54	−0·01	−0·51	−4·66	+1·88	− 4·21	+0·64	−2·35	−0·27	−0·18	− 9·32
	Ballia	−0·28	−0·23	+1·14	−0·12	−0·01	−5·62	+7·10	+ 2·44	+5·10	−3·00	−0·17	−0·01	+ 6·34
	Dudhi	+1·41	−0·22	+1·13	+0·03	−0·47	−4·88	−1·72	− 4·68	+6·93	−3·06	−0·26	−0·30	− 6·09
	Robertsganj	+0·50	+0·58	+0·86	−0·12	−0·29	−4·88	+7·46	− 2·45	+3·63	−2·77	−0·37	−0·27	+ 1·88
	Jhansi	−0·07	−0·02	−0·09	−0·11	−0·08	−4·25	−6·51	− 7·64	−0·07	−0·65	−0·07	−0·27	−19·83
	Lalitpur	+0·16	−0·07	−0·29	−0·09	−0·11	−5·31	−5·76	− 7·97	−1·32	−0·92	−0·17	−0·34	−22·19
OUDH.	Kheri	+0·79	+1·01	+0·67	+0·45	−0·82	−6·00	−2·62	+ 0·98	−3·91	−1·33	−0·16	−0·20	−11·14
	Sitapur	0	+0·61	+0·27	−0·27	−0·92	−4·81	−0·82	− 1·47	−0·86	−1·30	−0·15	−0·11	− 8·98
	Bahraich	−0·20	+1·55	+0·75	−0·04	−0·52	−4·43	−3·69	+ 9·10	−3·55	−1·64	−0·12	−0·04	− 2·83
	Gonda	+0·14	+0·71	+1·52	−0·07	+0·02	−5·58	+3·46	+18·71	−0·86	−1·49	−0·19	−0·16	+16·30
	Hardoi	−0·21	+0·95	+0·46	−0·07	−0·38	−3·95	−2·22	− 4·55	+1·77	−1·15	−0·12	−0·21	− 9·75
	Nawabganj (Bara Banki)	−0·37	+2·61	+0·91	−0·10	−0·45	−4·96	−3·18	+ 0·60	−3·27	−1·06	−0·07	−0·46	− 3·80
	Lucknow	−0·59	+1·06	+0·46	+0·05	−0·75	−5·16	−0·81	+ 1·67	−3·24	−1·33	−0·08	−0·41	− 9·13
	Unao	−0·40	+1·10	−0·03	−0·06	−0·21	−4·63	−3·80	− 5·47	−3·53	−1·32	−0·09	−0·37	−18·81
	Fyzabad	−0·37	+0·08	+0·34	−0·02	+0·08	−3·26	+2·31	+ 5·88	−0·06	−1·94	−0·08	−0·23	+ 0·73
	Sultanpur	−0·14	+1·32	+0·66	−0·11	+0·88	−5·64	+4·36	− 0·59	−3·09	−2·18	−0·15	−0·19	− 4·87
	Rae Bareli	−0·31	+0·18	+0·22	−0·09	−0·16	−5·13	−0·97	− 5·12	−2·29	−1·34	−0·12	−0·23	−15·36
	Partabgarh	−0·17	+0·65	+0·50	+0·12	−0·41	−4·79	+4·56	− 1·98	−2·45	−2·07	−0·21	−0·29	− 6·45
BENGAL.	Motihari	−0·25	+0·78	+0·15	−0·34	+1·55	−4·73	+8·78	+15·49	−0·86	−3·12	−0·12	−0·13	+17·20
	Darbhanga	−0·47	+0·42	+0·97	+0·04	+1·45	−6·71	+8·49	+15·25	+6·81	−2·56	−0·07	−0·11	+23·51
	Siwan	−0·22	+0·37	+0·92	+0·50	+0·58	−6·65	+2·48	+14·72	−0·55	−2·04	−0·17	−0·11	+ 9·83
	Buxar	−0·39	−0·13	+1·37	+0·36	−0·58	−5·11	+1·85	− 0·86	+5·21	−2·37	−0·38	−0·11	− 1·14
	Chapra	−0·44	−0·12	+0·57	+0·61	+1·21	−5·45	−1·19	+ 8·03	+2·18	−2·07	−0·25	−0·05	+ 3·03
	Arrah	−0·58	−0·44	+1·29	0	−0·23	−6·45	−4·61	+ 1·38	+5·08	−2·43	−0·21	−0·09	− 6·29
	Patna (Bankipore)	−0·49	−0·29	+2·49	+0·15	−0·35	−6·07	+2·06	+18·50	+4·45	−2·67	−0·20	+0·05	+17·03

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1905 from the average of past years*—contd.

PROVINCE.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
BENGAL—*contd.*	Muzaffarpur	+0·05	+0·38	+0·82	−0·07	+1·18	−5·67	+ 0·10	+20·06	+ 2·52	−2·92	−0·12	−0·07	+16·26
	Barh	−0·34	+0·68	+ 1·30	+0·03	−0·02	−5·22	+ 2·70	+ 8·24	+11·84	−1·78	−0·18	−0·09	+17·16
	Sasaram	+0·12	+0·48	+0·42	+0·07	+0·17	−5·42	− 1·71	+ 2·44	+19·51	−2·26	−0·27	−0·20	+13·35
	Gaya	+0·60	+ 0·77	+0·87	+0·47	−0·60	−6·37	+ 0·35	− 1·05	+ 6·88	−2·27	−0·27	−0·12	− 0·75
	Jamui	−0·19	+1·34	+1·71	+0·36	+1·13	−5·96	− 1·53	− 1·36	+ 4·63	−1·44	−0·12	−0·07	− 1·50
	Madhipura	−0·44	+0·21	+0·69	−0·21	+4·51	−5·12	+ 3·55	+ 5·63	+10·12	−3·14	−0·06	−0·05	+15·69
	Monghyr	+0·51	+0·61	+1·52	+0·06	+5·62	−5·78	+ 6·51	+ 5·04	+ 4·74	−3·45	−0·20	−0·03	+15·15
	Bhagalpur	+0·16	+1·04	+1·12	−0·36	+1·78	−7·10	+ 9·49	+ 1·69	+ 1·91	−3·54	−0·17	−0·02	+ 6·00
	Godda	+0·71	+2·31	+2·42	−0·27	−1·43	−4·01	+14·19	+ 5·29	+ 5·54	−2·54	−0·27	−0·03	+21·91
	Palamau	+1·26	+0·40	+1·16	+0·02	−0·84	−5·62	+ 0·87	− 1·28	+ 9·85	2·21	−0·35	−0·18	+ 3·08
	Hazaribagh	+0·81	+0·58	+5·78	+1·70	−0·91	−8·76	+ 5·24	− 5·53	+ 6·17	−2·98	−0·30	−0·18	+ 1·62
	Ranchi	+1·78	+0·94	−0·53	+0·81	+1·35	−7·11	+ 3·15	− 1·97	+ 2·70	−2·73	−0·31	+0·12	− 1·80
	Lohardaga	+2·37	+0·53	+0·50	+0·55	−0·64	−7·99	− 1·03	− 3·48	+ 3·11	−1·36	−0·46	−0·22	− 8·02
	Naya Dumka	+0·16	+0·93	+2·68	−0·16	+0·78	−7·90	+ 2·23	+ 4·12	− 0·35	−2·56	−0·31	−0·10	− 0·48
	Gobindpur	+0·17	+2·33	+3·77	+0·57	+1·14	−5·19	+ 1·64	− 3·60	+ 6·50	+0·04	− 0·22	−0·07	+ 7·08
	Purulia	+1·98	+1·48	+0·36	+0·50	−1·13	−8·07	+13·10	− 3·65	+ 1·61	−3·13	−0·24	+0·07	+ 2·88
	Sirguja	+0·52	−0·49	−0·25	+0·96	+1·75	−7·42	+ 3·36	−10·26	+10·69	−2·30	−0·55	+0·03	− 3·96
	Jushpur	+1·86	−0·12	+0·43	+0·33	+1·10	−8·00	+ 1·67	− 6·59	+ 2·18	−2·73	−0·41	−0·35	−10·63
	Gangpur	+1·50	−0·25	−0·23	+0·87	+0·09	−8·49	− 6·18	+ 0·80	+19·84	−2·33	−0·69	−0·40	+ 4·56
	Chaibassa	+1·15	+2·34	+1·04	+1·08	−0·58	−5·33	+ 6·85	− 8·39	+ 5·46	−2·05	−0·40	−0·26	+ 0·91
	Barreepudda	+0·64	−0·34	+1·35	+1·75	−0·61	−6·68	+ 9·08	+ 4·23	− 1·08	−2·95	−0·81	−0·14	+ 4·44
	Keonjhar	+3·54	+0·84	+2·82	+2·05	+2·18	−2·36	+ 0·02	− 3·53	+ 4·43	−2·59	−0·83	−0·28	+ 6·29
	Jellasore	+0·39	+1·62	+2·54	+1·03	−1·45	−3·57	+ 5·20	− 4·63	− 1·58	−2·60	−0·65	−0·13	− 3·83
	Balasore	+0·05	− 0·49	+1·61	+1·75	−2·66	−7·05	+ 4·29	− 9·02	+ 0·57	−2·79	−1·18	−0·19	−15·11
	Bhadrak	+2·11	−0·62	+2·82	+0·80	−2·90	−4·89	− 4·05	− 8·23	− 0·17	−1·80	−1·17	−0·31	−18·41
	Talcher	+3·52	−0·74	+4·17	−0·17	+3·65	−7·86	− 0·96	− 4·08	+ 1·67	−2·79	−1·06	−0·18	− 4·83
	Narsinghpur	−0·08	−0·10	+4·48	+1·83	+4·53	−0·42	− 6·20	− 0·16	+ 0·97	−0·23	−0·25	−0·38	+ 3·99
	Angul	+2·35	−0·61	+0·42	−0·17	+2·71	−6·94	+ 0·27	− 2·22	− 0·46	−4·02	−1·22	− 0·35	−10·24
	Dhenkanal	+2·02	−0·01	+2·73	+1·26	+1·98	−7·60	− 3·63	− 4·14	+ 2·03	− 2·76	−1·15	−0·28	− 9·55
	Bispara	−0·13	−0·24	+3·24	+0·27	+3·45	−5·65	− 0·14	+ 2·78	− 3·16	−4·43	−0·96	−0·24	− 5·21
	Kunjabangar	+1·26	−0·12	+5·84	+0·69	+1·58	−4·01	− 2·58	+ 0·22	− 2·69	−3·51	−0·69	−0·10	− 4·11
	Banki (Charchika)	+0·30	+0·59	+2·10	−0·62	+2·15	−6·19	− 0·76	− 0·16	+ 2·57	−2·74	−1·42	−0·40	− 4·58
	Cuttack	+0·02	+0·07	+0·83	−1·19	+1·95	−8·25	− 1·90	− 4·85	− 2·92	−3·98	−1·36	−0·34	−21·92
	Baramba	−0·06	−0·01	+6·04	−0·64	+1·84	−3·25	+ 0·74	+ 0·19	− 1·14	−4·81	−1·14	−0·04	− 2·28

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1905 from the average of the past years*—contd

PROVINCE.	STATION.	January.	February.	March.	April.	May.	June.		August.	September.	October.	November.	December.	TOTAL.
BENGAL—*contd.*	False Point	+0·43	+0·06	—0·11	+0·53	—2·16	— 7·47	— 4·08	— 9·85	— 1·02	+ 9·00	—2·74	—0·22	—17·63
	Puri	+0·79	+0·23	+2·18	—0·38	—0·99	— 4·98	— 3·53	— 5·72	+ 2·72	— 6·67	—2·62	—0·55	—19·57
	Darjeeling	—0·60	—0·14	—0·90	—0·68	+3·03	— 9·14	+ 8·34	+14·27	+12·86	+ 1·75	—0·24	+1·07	+29·62
	Mongpoo	+0·26	+1·30	+0·12	—0·10	—1·01	— 1·74	— 0·91	+14·75	— 2·97	+ 2·62	—0·08	+1·76	+14·00
	Pedong	+0·50	—0·24	—0·84	—0·76	+2·77	— 0·61	— 2·64	+ 4·07	+ 2·46	+ 3·45	—0·33	+1·11	+ 8·94
	Buxa	—0·14	—0·42	—0·30	+0·50	— 6·36	— 1·50	— 7·12	+51·79	—14·14	— 4·09	+1·04	+2·21	+21·34
	Jalpaiguri	—0·34	+0·59	+1·44	+2·64	—3·61	+ 8·25	+ 2·94	+19·66	—10·57	— 1·66	—0·14	+0·03	+19·23
	Cooch Behar	—0·43	+0·27	+0·93	—2·26	—2·86	+19·87	— 1·51	+46·61	— 3·40	+ 1·68	—0·14	+0·35	+59·11
	Kishanganj	—0·27	+0·58	+0·87	+3·06	+3·13	— 8·43	+ 3·05	+16·33	— 0·57	— 0·62	—0·05	—0·09	+17·00
	Purnea	—0·26	+0·75	+1·11	+1·49	+1·30	— 7·50	— 1·61	+15·81	— 5·47	— 3·33	—0·07	—0·10	+ 2·12
	Rangpore	—0·43	+0·85	+0·32	—0·06	+9·81	—13·50	— 3·60	+14·11	— 3·32	— 3·05	—0·24	—0·08	+ 0·81
	Dinajpore	—0·23	+0·67	+ 1·28	+0·54	+3·86	—11·36	— 2·20	+10·17	— 1·00	— 2·90	—0·16	—0·05	— 1·38
	Malda	+0·70	+1·50	+1·16	—1·02	+7·83	— 7·73	+ 0·84	+11·27	+ 0·14	— 2·12	—0·22	—0·19	+12·16
	Bogra	—0·24	+0·50	+1·95	—0·73	+4·55	— 7·67	— 5·13	+11·70	+19·19	+ 0·23	—0·82	—0·03	+13·50
	Rampur Boalia	+0·47	+0·35	+3·05	+0·72	+1·80	— 6·13	+ 7·91	+ 5·20	+ 6·44	— 0·37	— 0·31	+0·04	+19·17
	Pubna	+0·57	+0·07	+1·44	+1·54	+4·79	— 5·25	+ 6·68	+ 2·15	+ 2·49	+ 1·14	—0·59	+0·18	+15·21
	Suri	—0·13	+0·91	+3·11	+3·21	+0·72	— 6·52	+ 3·57	+ 3·18	+ 0·47	— 2·15	—0·33	+0·06	+ 6·10
	Bankura	+0·87	+0·26	+0·04	—0·27	—1·13	— 7·86	+ 2·80	— 2·57	+ 2·17	— 1·69	—0·51	+0·24	— 7·65
	Burdwan	+1·08	+1·47	+ 4·97	+1·32	+3·96	— 8·60	+21·82	+ 3·31	+ 1·64	+ 0·51	—0·64	+0·56	+31·34
	Hooghly	+0·74	+ 1·78	+0·68	+ 2·23	+2·71	— 7·32	+ 6·60	— 0·48	+ 2·94	+ 0·76	—0·66	+0·24	+10·22
	Howrah	+0·49	+0·54	+1·92	+2·12	+2·72	—10·51	+13·47	— 5·48	+ 2·70	+ 2·08	—0·50	— 0·18	+ 9·37
	Midnapore	+1·92	+1·73	+2·12	+0·83	+0·16	— 5·91	+ 7·87	— 0·99	+ 0·97	— 2·33	—0·56	+0·29	+ 6·10
	Tamluk	+2·01	+0·42	+ 1·44	+1·52	+0·91	— 7·83	+10·92	— 0·89	— 0·01	+ 0·49	—0·45	—0·15	+ 8·38
	Berhampore	+0·37	+0·43	+2·10	+1·55	+4·13	— 7·19	+ 8·08	— 0·47	+ 1·10	— 0·11	—0·40	+0·38	+ 9·97
	Krishnagar	+1·68	+1·69	+3·44	+1·36	+4·96	— 5·16	+17·03	+ 3·02	+ 6·94	+ 0·72	—0·74	+0·18	+35·12
	Faridpur	+0·37	+0·12	+2·35	+4·97	+0·82	— 7·77	+ 8·50	+ 0·22	+16·45	+ 5·95	—1·03	+0·24	+31·17
	Jessore	+1·21	+0·47	+0·51	+2·52	—0·42	— 8·46	+ 15·66	+ 1·38	+ 4·76	+ 8·17	—1·18	+0·25	+24·87
	Basirhat	+0·64	+0·34	+0·46	+5·38	+0·90	— 7·25	+12·51	— 0·59	+ 1·81	+ 1·37	—0·51	+0·43	+15·49
	Khulna	+2·75	—0·47	+4·62	+1·62	—1·62	— 6·47	+11·51	+ 5·17	+ 4·51	+ 2·89	—0·72	+0·19	+23·98
	Barisal	0	+0·25	+3·08	+4·31	—0·20	—12·44	+15·01	+ 9·13	+12·74	+ 0·68	—1·02	+0·23	+31·77
	Alipore (Obsy.)	+0·65	+0·60	+ 2·34	+3·44	+4·41	— 9·44	+12·53	— 6·38	+ 0·80	+ 0·91	—0·62	—0·31	+ 8·93
	Saugor Island	+0·91	+0·52	+6·49	+1·80	+0·95	— 9·63	+ 2·10	— 5·72	+ 0·62	+ 6·92	—1·31	+0·24	+ 3·89
	Mymensingh	—0·35	—0·40	+1·73	—0·52	+8·60	— 0·48	— 0·49	+11·96	+ 0·56	+ 0·48	—0·76	—0·02	+20·31
	Kishorganj	—0·29	—0·25	+1·10	—0·47	+5·64	— 3·19	+ 1·77	+ 9·65	+ 9·98	+12·42	—0·69	—0·10	+35·57

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1905 from the average of past years*—cont d

PROVINCE.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
BENGAL—concld.	Atia (Tangail)	−0·33	+0·02	+ 1·80	+ 2·91	+4·96	− 5·91	+ 1·80	+ 5·68	+ 7·65	+ 1·36	−0·50	+0·02	+18·86
	Dacca . .	−0·15	+0·02	+ 1·57	+ 5·92	+3·41	− 7·96	+ 7·99	− 1·18	+ 8·77	+ 5·43	−0·86	+0·31	+23·27
	Comilla .	−0·51	−0·44	+ 2·44	+ 2·47	−3·26	− 5·52	+ 2·25	+ 2·38	+ 5·78	+13·95	−1·49	+1·02	+18·37
	Agartalla .	−0·55	−0·58	+ 1·77	+ 0·32	+1·19	− 4·55	+ 9·50	− 2·64	− 0·75	+ 6·17	−1·24	−0·04	+ 8·60
	Noakhali .	−0·34	+0·93	+ 6·48	+ 1·89	+1·83	−12·89	+ 4·24	+ 9·18	+14·69	+ 3·55	−1·61	+1·20	+29·15
	Demagiri .	−0·21	−0·22	+14·18	+ 0·99	−8·52	− 4·44	+ 3·41	+ 6·51	+ 5·69	+ 0·36	−1·53	−0·35	+15·87
	Rangamatia Hills.	−0·39	−0·71	+12·96	− 0·56	−5·07	− 8·05	+ 1·81	+ 4·33	+ 7·14	+ 1·75	−1·53	+0·90	+12·58
	Chittagong .	−0·30	−0·95	+12·72	+ 3·97	−4·70	− 9·66	+10·32	+15·23	+11·06	− 0·88	−1·49	+0·36	+35·68
	Cox's Bazar .	−0·13	−0·21	+ 8·65	+ 0·97	−5·51	−15·17	+ 4·28	+10·28	+ 8·38	+ 0·19	−1·97	+0·23	+ 9·99
ASSAM.	Sylhet . .	−0·30	−1·10	+ 4·60	− 3·45	−8·55	+ 8·44	+ 2·56	+16·66	− 8·08	+15·58	−1·12	+0·67	+25·91
	Silchar . .	−0·49	−1·53	+ 3·87	− 1·40	−8·93	+ 6·09	− 1·60	+ 8·41	− 5·54	+12·07	−1·31	+0·57	+10·21
	Cherra Poonjee	−0·64	−1·51	− 4·27	−18·49	−9·86	−17·34	−14·00	+57·05	+11·70	+36·18	−1·26	+0·91	+38·47
	Tura . .	−0·56	+0·87	− 0·34	+ 0·21	+3·88	+ 6·86	− 3·18	+32·67	+ 4·36	− 0·87	−0·30	+0·50	+44·10
	Shillong .	−0·42	+0·63	+ 1·09	− 0·35	+5·64	− 2·02	− 3·32	+12·54	− 6·28	+ 7·74	−0·76	−0·19	+14·30
	Dhubri .	−0·32	+0·43	0	+ 1·69	−0·72	+15·10	− 2·72	+ 8·05	+ 1·16	+ 0·32	−0·14	−0·14	+22·71
	Goalpara .	+0·33	0	+ 1·19	+ 1·00	−4·38	− 1·95	+ 6·20	+ 7·92	− 1·34	− 0·50	−0·21	+0·14	+ 8·40
	Kulsi . .	−0·19	+0·05	+ 1·52	− 1·57	−2·19	− 4·35	+ 0·50	+11·18	+ 3·11	− 5·13	+0·21	+0·30	+ 5·44
	Gauhati .	−0·13	−0·61	+ 0·31	+ 0·31	+3·25	− 4·97	− 6·75	+ 7·15	− 0·02	− 2·53	+0·09	+0·17	− 3·73
	Nowgong .	−0·39	−0·67	+ 0·43	− 0·93	−4·97	− 6·10	− 4·75	+22·23	+ 3·17	− 2·75	+0·91	+0·74	+ 6·92
	Tezpur .	−0·35	−0·69	+ 1·23	+ 5·23	−1·51	− 2·77	− 3·71	+12·23	− 2·59	− 0·45	+0·49	+1·24	+ 8·35
	Chardner .	−0·18	−0·25	+ 0·36	+ 4·39	+3·67	+ 3·25	+ 4·91	+19·61	− 5·77	− 1·23	+2·18	−0·18	+30·76
	Sibsagar .	+0·25	−1·45	+ 1·85	− 0·15	−4·34	− 3·75	+ 1·40	+ 2·56	+ 1·10	− 2·62	+0·93	+0·67	− 3·55
	Dibrugarh .	+0·57	−1·63	+ 0·54	− 2·20	−7·72	− 9·27	+ 0·89	+ 3·41	− 9·72	− 2·69	+0·50	+0·54	−26·78
	Kohima .	−0·19	−0·69	+ 1·93	+ 0·25	−1·84	− 4·52	+ 0·79	+11·48	− 1·20	+ 5·06	−0·95	+0·85	+10·97
CENTRAL PROVINCES.	Saugor .	−0·50	−0·20	− 0·08	− 0·16	−0·51	− 6·75	−10·23	− 2·63	+ 0·26	− 1·17	−0·33	−0·49	−22·79
	Damoh .	−0·41	−0·54	− 0·20	− 0·01	−0·30	− 6·12	− 5·44	− 3·31	− 1·73	− 1·48	−0·31	−0·39	−20·24
	Jubbulpore .	−0·43	−0·29	− 0·22	− 0·13	−0·39	− 0·17	− 0·19	− 3·74	+ 1·61	− 1·49	−0·37	−0·21	−12·02
	Narsinghpur .	−0·46	−0·41	− 0·15	− 0·24	−0·23	− 7·40	− 3·95	− 2·26	+ 4·69	− 1·13	−0·25	−0·38	−12·17
	Hoshangabad	−0·33	−0·21	− 0·17	+ 0·10	−0·26	− 6·28	+ 5·34	− 1·33	+ 5·59	− 1·31	−0·39	−0·44	+ 0·31
	Khandwa .	−0·30	−0·19	− 0·09	− 0·12	−0·30	− 2·87	+ 6·58	− 5·24	+ 6·09	− 1·06	−0·15	−0·37	− 4·02
	Badnur (Betul)	−0·44	+0·02	− 0·56	− 0·29	−0·27	− 4·42	+ 2·50	− 1·26	+11·19	− 1·75	−0·39	−0·49	+ 3·84
	Pachmarhi .	−0·31	−0·27	− 0·31	− 0·17	−0·26	− 8·60	+ 6·71	− 8·89	+15·89	− 1·83	−0·41	−0·54	+ 1·01
	Chhindwara .	−0·36	+0·16	− 0·40	+ 0·16	+0·36	− 5·92	+ 1·14	− 3·23	+ 6·78	− 1·41	−0·41	−0·34	− 3·47
	Seoni . .	−0·45	−0·48	− 0·28	+ 0·14	+0·73	− 5·13	− 3·64	+ 1·49	+ 2·54	− 1·95	−0·43	−0·57	− 8·03

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1905 from the average of past years*—contd.

PROVINCE.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November	December.	TOTAL.
CENTRAL PROVINCES—*concld.*	Balaghat	−0·21	+0·08	−0·01	+0·79	+0·40	− 8·90	− 3·78	− 2·85	+ 1·96	−1·50	−0·49	−0·22	−14·73
	Mandla	+1·02	+0·16	+1·10	−0·03	+0·06	− 7·29	− 2·74	− 6·94	+ 2·13	−1·39	−0·28	−0·33	− 8·53
	Bilaspur	+1·51	+1·56	+0·07	−0·12	+0·46	− 8·30	− 6·56	− 3·04	+ 3·98	−1·68	−0·57	−0·27	−12·96
	Sarangarh	+1·42	+0·70	−0·24	+0·06	−0·42	− 7·22	+ 5·74	− 4·80	+ 1·50	−2·87	−0·53	−0·13	− 6·79
	Raigarh	+2·05	+0·61	−0·15	+0·97	−0·15	− 7·92	− 3·77	− 9·57	+ 4·56	−0·77	−0·65	−0·21	−15·00
	Sambalpur	+1·61	+0·82	+0·61	−0·07	+0·78	− 9·51	− 1·69	+ 0·02	+ 6·60	−1·51	−0·42	−0·25	− 3·01
	Raipur	+1·12	+0·67	+0·21	−0·29	+0·32	− 8·52	+ 1·90	− 4·33	+ 8·58	−2·09	−0·62	−0·20	− 3·25
	Dhamtari	−0·06	−0·14	−0·31	+1·88	+1·29	− 5·80	− 1·28	+ 1·97	+ 4·03	−1·85	−0·36	−0·11	− 0·74
	Bhandara	−0·33	+0·38	−0·27	+0·78	−0·57	− 6·07	− 5·54	+ 2·39	+10·31	−1.11	−0·69	−0·35	− 1·07
	Nagpur	−0·36	+0·34	−0·41	+0·44	−0·31	− 0·96	+ 0·01	+ 0·34	+ 9·61	−2·14	−0·51	−0·43	+ 5·62
	Arvi	−0·44	+0·22	−0·44	−0·15	−0·51	+ 3·53	− 1·96	+ 1·82	+ 3·70	−2·24	−0·35	−0·36	+ 2·82
	Wardha	+0·32	+0·09	−0·25	−0·03	−0·53	− 0·30	− 5·30	− 1·90	+12·68	−2·14	−0·57	−0·34	+ 1·73
	Brahmapuri	+0·50	−0·03	−0·49	+1·37	−0·53	− 6·59	− 5·58	− 3·18	+12·69	−1·99	−0·54	−0·37	− 4·74
	Chanda	−0·25	−0·53	+0·54	+0·92	−1·22	− 3·55	−11·03	0	+ 7·36	−1·98	−0·73	−0·30	−10·77
	Sironcha	−0·27	−0·29	−0·04	−0·28	+1·36	+ 1·02	− 5·63	− 2·85	+ 2·66	−1·26	−0·65	−0·23	− 6·46
	Baster(Jagadalpore).	−0·11	−0·14	+1·02	+0·56	−1·44	− 6·15	+ 2·01	− 0·21	+ 3·58	−1·46	−0·78	−0·18	− 3·30
BERAR.	Chikalda	−0·55	+0·14	−0·38	−0·28	+0·13	− 4·75	+ 0·48	− 7·12	+ 5·98	−3·83	−0·64	−0·75	−11·83
	Ellichpur	+0·42	−0·11	−0·34	−0·25	+0·04	− 3·39	+ 0·79	− 2·80	+ 1·66	−2·10	−0·56	−0·51	− 7·99
	Amraoti	−0·31	−0·16	−0·34	−0·05	−0·49	− 4·97	+ 0·42	− 2·67	+ 2·85	−1·71	−0·36	−0·44	− 8·23
	Akola	−0·45	−0·06	−0·40	−0·16	−0·31	− 2·89	− 2·12	− 3·25	− 0·31	−2·14	−0·41	−0·58	−12·08
	Buldana	−0·48	−0·12	−0·25	−0·28	−0·47	− 2·93	+ 0·36	− 3·86	+ 2·85	−1·33	−0·30	−0·45	− 7·26
	Basim	−0·29	+0·31	−0·45	−0·28	−0·48	− 3·95	− 5·15	− 3·27	+ 3·25	−0·87	−0·66	−0·37	−12·21
	Yeotmal	+0·28	+0·77	−0·18	−0·35	−0·73	− 5·20	− 5·33	− 1·19	+ 5·27	−2·36	−0·56	−0·38	− 9·96
	Wun	−0·29	−0·23	+0·74	+0·30	+0·13	− 1·02	− 6·97	− 0·09	+ 2·60	−1·52	−0·74	−0·29	− 7·38
BOMBAY.	Dhulia	−0·27	−0·06	−0·04	−0·07	−0·27	− 1·76	+ 2·18	− 1·75	− 2·10	−1·63	−0·52	−0·31	− 6·60
	Nasik	−0·07	−0·06	−0·03	−0·14	−0·22	− 4·78	+ 4·97	− 1·96	− 4·43	−1·73	+0·09	−0·22	− 8·58
	Igatpuri	−0·14	−0·09	−0·03	−0·07	−0·38	−17·61	+ 1·84	−17·39	− 9·00	−3·72	+0·12	−0·18	−46·65
	Malegaon	−0·19	−0·11	−0·04	−0·19	−0·67	− 2·39	+ 0·08	− 0·35	− 3·27	−2·12	−0·37	−0·35	− 9·97
	Ahmednagar	−0·27	−0·12	−0·15	−0·40	−1·08	− 0·69	− 0·41	− 0·80	− 5·68	−0·52	−0·46	−0·44	−11·02
	Poona	−0·18	−0·05	−0·13	−0·58	+0·24	− 2·12	+ 6·91	− 2·29	− 4·03	−0·29	−0·45	−0·20	− 3·17
	Lonavla	−0·06	−0·04	−0·06	−0·23	−0·54	−22·11	− 8·82	−17·86	−13·78	−2·23	+0·15	−0·15	−65·73
	Satara	−0·27	−0·10	−0·10	−0·93	+0·05	− 4·56	+ 3·50	− 4·78	− 3·19	−0·15	+0·03	−0·41	−10·91
	Mahableshwar	−0·31	+0·04	−0·30	−1·26	−0·58	−39·04	+ 5·47	−21·51	+13·33	+2·97	−0·02	−0·32	−68·19
	Sholapur	−0·06	+0·12	−0·29	−0·51	−0·88	− 1·17	− 1·99	− 3·23	− 6·49	+1·72	−0·87	−0·30	−13·95

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1905 from the average of past years*—contd.

PROVINCES.	STATION.	January.	February.	March.	April.	May.	June.	July.	August	September.	October.	November.	December.	TOTAL.
BOMBAY—*concld.*	Kolhapur	—0·06	—0·09	—0·14	—1·30	—0·07	— 6·80	+ 4·54	— 4·03	— 3·25	—0·30	—0·02	—0·19	— 12·79
	Belgaum	—0·06	—0·03	—0·32	—1·64	+0·54	— 5·51	— 2·81	— 5·34	— 3·58	—1·64	—0·54	— 0·24	—21·17
	Gokok	—0·07	—0·01	—0·41	—1·55	+1·32	+ 0·42	— 1·41	+ 0·12	— 0·96	—2·47	—0·69	—0·56	— 6·27
	Dharwar	—0·11	—0·03	—0·20	—0·83	—0·52	— 1·56	— 2·91	— 2·30	— 2·97	+0·07	—1·13	—0·37	—12·80
	Hubli	—0·09	—0·01	—0·32	—0·96	+2·97	— 1·30	— 2·77	— 0·17	— 3·07	—1·39	—0·57	—0·20	— 7·88
	Nargund	—0·17	—0·09	—0·28	—1·20	+0·13	— 0·46	— 1·11	+ 1·07	— 4·98	—4·47	—0·91	—0·26	—12·73
	Mundargi	—0·19	0	—0·13	—1·03	—0·52	+ 4·71	— 1·50	+ 3·71	— 3·87	—0·66	—1·38	—0·09	— 0·95
	Kalghatgi	—0·12	0	+0·09	—0·54	+1·08	— 4·57	— 4·20	+ 0·28	— 2·17	—0·66	—0·65	—0·19	—11·65
	Bijapore	—0·05	—0·05	—0·26	—0·44	—0·67	— 1·08	— 2·11	+ 0·79	— 5·42	+0·02	—1·26	—0·55	—11·08
	Honavar	—0·16	—0·01	—0·10	—0·42	—2·56	— 2·52	— 5·56	+ 4·66	— 4·85	—0·27	+0·86	—0·12	—11·05
	Karwar	—0·12	—0·01	—0·04	—0·44	—0·73	+ 0·22	—25·27	— 0·03	— 6·51	+3·67	— 1·44	—0·11	—30·81
	Goa	—0·19	0	—0·02	—0·22	—0·37	— 4·76	—22·53	—11·39	— 2·18	+0·61	—0·76	—0·08	—41·89
	Vengurla	—0·19	—0·02	—0·05	—0·28	—1·97	—16·50	—22·55	— 8·08	— 4·77	—0·43	—0·97	—0·15	—55·96
	Ratnagiri	—0·60	—0·02	—0·05	—0·15	—1·23	—19·51	—13·04	—12·71	— 4·22	+ 2·43	+ 0·64	—0·06	—48·52
	Colaba (Obsy.)	—0·12	+0·06	—0·01	—0·05	—0·55	—15·88	— 2·41	—10·56	— 4·77	—1·56	+ 0·57	—0·05	—40·33
	Byculla (J. J. Hospital).	—0·14	—0·03	—0·01	—0·03	—0·39	—18·34	—12·62	—13·03	— 7·53	—2·60	+ 3·19	—0·04	—50·97
	Thana	—0·17	—0·06	—0·06	—0·01	—0·36	—18·15	— 4·79	—11·92	— 3·81	—1·70	+0·26	—0·04	—40·81
	Matheran	—0·08	+0·02	—0·01	—0·07	—0·70	—29·33	— 9·57	—30·61	—14·95	—4·13	—0·15	—0·04	—89·62
	Surat	—0·03	+0·17	+0·15	—0·01	—0·15	— 7·95	— 0·10	— 7·10	— 5·21	—1·57	—0·13	—0·03	—21·96
	Broach	—0·04	—0·06	—0·01	0	—0·12	— 7·35	— 0·32	— 7·76	— 5·07	—1·48	—0·16	—0·04	—22·41
	Kaira	—0·03	—0·11	—0·02	+0·06	—0·30	— 2·84	+ 19·92	— 8·00	— 3·36	—0·50	—0·31	—0·05	+ 4·46
	Bariya	—0·05	—0·25	0	—0·03	—0·27	— 4·25	+12·11	—10·96	— 3·21	—0·91	—0·17	—0·11	— 8·10
	Godhra	—0·04	+0·05	+0·24	—0·02	—0·40	— 4·83	+22·31	— 9·30	— 2·64	—0·90	—0·15	—0·09	+ 4·23
	Dohad	—0·06	—0·20	—0·01	—0·03	—0·46	— 1·84	+ 10·56	— 6·74	— 2·25	—0·99	—0·16	—0·14	— 2·32
	Ahmedabad	—0·02	—0·10	+0·01	—0·01	—0·46	— 3·39	+29·95	— 7·64	+ 0·23	—0·55	—0·19	—0·05	+17·78
	Idar	—0·04	—0·13	+0·27	—0·02	—0·57	— 3·15	+ 2·67	—11·07	— 0·74	—0·26	—0·22	—0·07	—13·33
	Deesa	—0·12	—0·14	—0·01	—0·05	—0·19	— 2·25	+ 8·61	— 7·43	— 2·22	—0·58	—0·14	—0·05	— 4·57
	Wadhwan	—0·05	—0·04	—0·04	—0·02	—0·20	— 2·38	+ 19·50	— 2·98	— 2·78	—0·55	—0·42	—0·05	+ 9·99
	Palanpore	—0·08	—0·18	+0·01	—0·07	—0·56	— 2·74	+ 7·54	—10·08	— 2·90	—0·45	—0·10	—0·11	— 9·72
	Rajkot	—0·05	—0·10	—0·01	—0·01	—0·31	— 4·47	+ 3·17	— 4·59	— 3·44	—0·67	—0·33	—0·06	—10·87
	Songad	—0·03	—0·08	—0·05	+0·03	—0·21	— 3·55	— 0·85	— 4·88	— 3·91	—1·51	—0·21	—0·03	—15·28
	Jetalsar	—0·05	+0·01	0	+0·01	—0·20	— 5·34	— 3·67	— 4·24	— 3·29	—1·42	—0·49	—0·04	—18·72
HYDERABAD.	Aurangabad (Cantt).	—0·04	—0·10	—0·07	—0·20	—0·53	— 3·40	— 2·82	— 3·76	— 3·55	—2·26	—0·44	—0·69	—17·77
	Parbhani	—0·06	—0·05	—0·22	—0·04	—0·52	— 1·86	— 5·46	— 0·33	+ 0·22	—2·56	—0·62	—0·23	—11·73
	Nandair	—0·11	—0·18	—0·46	—0·49	—0·25	— 3·86	— 5·65	+ 1·86	+ 1·98	—2·44	—0·69	—0·53	—11·07

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1905 from the average of past years*—contd.

PROVINCE.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL
HYDERABAD—*concld.*	Bheer	—0·10	—0·05	—0·21	—0·20	—0·59	+1·63	—0·69	—0·01	—4·73	—1·53	+0·98	—0·54	—11·26
	Indur	—0·05	+0·17	—0·48	+0·51	—0·28	+1·96	—8·29	+3·57	+5·55	—2·09	—0·95	—0·33	— 4·63
	Karimnagar	—0·21	+0·23	—0·31	+2·21	+1·62	+0·50	—4·79	+7·48	—0·15	—1·91	+1·05	—0·28	+ 3·43
	Kandi	—0·05	+0·16	+1·02	+0·20	+0·09	—2·10	—6·36	+3·80	—3·02	+0·64	+1·04	—0·17	— 6·83
	Shumsabad	—0·06	+0·08	—0·34	—0·69	+0·98	+0·10	—5·17	+4·64	—2·25	+1·95	+1·37	—0·75	— 2·28
	Sundanully	—0·02	+1·01	—0·42	+0·26	+0·01	+1·15	—4·42	+2·16	—6·41	+1·69	—1·09	—0·06	— 6·14
	Dharase	—0·02	+0·13	—0·29	+0·88	—0·70	—0·82	—4·98	—2·92	—3·61	—1·70	+0·80	—0·34	—15·17
	Bidar	—0·01	+1·22	—0·45	—0·38	+0·21	—1·44	—7·88	+1·10	—1·36	—0·47	—1·30	—0·52	—11·28
	Gulbarga	—0·07	—0·08	—0·16	—0·04	+0·10	+0·77	—2·11	+3·91	—2·29	+1·82	—0·69	—0·24	+ 0·62
	Bolaram	—0·10	—0·19	—0·15	—0·07	+0·84	—2·01	—4·74	+1·73	—1·66	—0·61	—0·94	—0·31	— 8·21
	Hyderabad (Residency)	—0·09	+0·03	—0·11	—0·36	+3·14	—2·54	—3·42	+2·61	—3·73	—1·39	—1·25	—0·40	— 7·51
	Zanawada	—0·06	—0·23	—0·36	—0·19	+1·71	+1·88	—5·44	+5·13	—4·49	+0·22	—1·03	—0·01	— 2·87
	Bhongir	—0·13	+0·10	—0·31	+0·81	—0·25	+1·02	—2·99	+3·37	—2·10	—0·70	—1·75	—0·11	— 3·04
	Hanumkonda	—0·23	+0·09	—0·34	+1·97	—0·36	+3·43	—5·34	—2·62	—2·31	—2·18	—1·17	—0·26	— 9·32
	Sirpur Tandur	—0·04	—0·41	+0·32	—0·09	+0·24	— 3·46	—8·63	+3·55	+5·58	—1·78	—0·93	—0·53	— 6·18
	Palmoor	—0·02	—0·10	—0·25	+0·42	+0·01	—0·28	—1·30	+2·99	—4·31	+2·03	—0·75	—0·24	— 1·80
	Raichur	—0·02	—0·01	+0·09	—0·63	—0·95	+5·22	—1·39	+0·34	—2·95	+2·42	—0·96	—0·10	+ 1·04
MADRAS.	Rambha	—0·18	—0·32	+1·88	+5·77	+3·56	+5·00	+2·37	—5·64	+1·25	—8·22	—2·21	—0·81	— 7·55
	Gopalpur	+0·55	+0·42	+0·44	+0·64	+3·80	—4·78	—1·45	—6·16	+7·79	—8·53	—3·30	—0·72	—11·30
	Aska	—0·20	—0·58	+3·21	+2·24	+3·55	—2·49	+1·15	—1·89	+0·84	—5·37	—2·13	—0·47	— 2·14
	Vizianagram	—0·12	—0·34	+2·07	+1·99	+2·61	—3·15	—2·87	+0·20	+4·61	—6·25	—2·39	—1·04	— 4·68
	Bimlipatam	—0·18	—0·26	+0·50	+0·77	+2·18	—0·36	—0·55	+2·81	+4·46	—6·36	—0·93	—0·96	+ 1·18
	Rayaghadda	+0·05	—0·19	+0·33	+3·09	+0·92	—3·10	—0·82	+6·81	+3·08	—0·61	—1·07	—0·54	+ 7·92
	Nourangapur	+0·19	—0·29	+1·19	+0·64	+0·18	—4·60	+2·55	+1·37	+8·29	—2·51	—0·72	—0·07	+ 6·22
	Gumpore	—0·06	+0·57	+0·84	+1·75	+3·51	—2·40	—1·19	+2·75	+2·10	—4·14	—1·60	—0·28	+ 1·85
	Jeypore	—0·06	—0·28	—0·71	+2·42	+1·35	—7·43	+4·22	+1·65	+8·27	—3·21	—1·16	—0·04	+ 5·02
	Koraput	—0·09	—0·13	+0·19	+0·98	—0·48	—5·02	+5·60	—1·00	+9·97	—2·29	—1·30	—0·19	+ 6·24
	Malkanagiri	—0·01	—0·12	+1·26	—0·53	+0·69	—3·49	+0·45	+2·22	+4·99	—1·80	—0·94	—0·04	+ 2·68
	Narsapatnam	—0·06	+3·34	+3·58	+2·81	—1·52	—0·33	—3·60	+8·48	—2·58	—6·62	—2·02	—0·72	— 3·24
	Waltair	—0·32	+2·37	+1·24	+1·02	+2·82	+0·16	—1·24	+0·50	+0·86	—8·32	—4·01	—1·34	— 6·26
	Cocanada	—0·17	+0·18	+3·88	+0·05	—0·07	—3·33	—3·54	+1·11	—1·51	—6·92	—3·47	—0·71	—14·50
	Rajahmundry	—0·14	—0·07	+2·98	+0·33	—1·99	+0·68	—4·49	+2·96	+2·89	—1·28	—1·98	—0·15	— 0·26
	Ellore	—0·16	+0·19	+2·53	—0·39	—0·17	—1·14	—3·67	+0·79	—1·35	—3·89	—2·29	—0·28	— 9·83

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1905 from the average of past years*—contd.

PROVINCE.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
MADRAS—*contd.*	Masulipatam	—0·17	+0·49	+3·79	—0·40	—0·21	+1·11	—4·38	+3·38	—4·90	—5·16	—4·17	—0·53	—11·15
	Guntur	—0·24	—0·19	+3·90	—0·52	+0·95	+1·72	—3·26	+5·16	—2·44	—4·39	—2·32	—0·36	—1·99
	Vinukonda	—0·19	+0·86	+0·32	—0·12	+0·75	+0·31	—2·66	+3·60	—3·82	—0·57	—3·09	—0·51	—5·12
	Ongole	—0·22	+0·11	—0·21	—0·36	—0·23	—0·20	—2·79	—0·24	—4·93	+0·28	—6·57	—0·88	—16·18
	Nellore	—0·36	+1·00	+0·43	—0·09	—1·00	+1·00	—1·41	—0·93	+2·12	+10·36	—6·50	—2·97	+1·65
	Udayagiri	—0·09	+0·26	+1·89	+0·74	+1·43	—0·57	—1·03	+2·32	—2·03	+2·66	—4·37	—1·75	—0·54
	Tada	—0·16	—0·25	—0·18	—3·27	—1·59	+1·91	+0·29	—0·42	—1·64	+5·82	—3·32	—3·69	—3·50
	Kurnool	—0·05	+0·03	—0·17	—0·51	+0·13	+2·43	—3·52	+6·12	—5·18	—0·05	—0·85	—0·15	—1·77
	Nandyal	—0·07	—0·04	—0·16	+0·29	—0·27	—1·39	—3·00	+7·90	—6·93	—2·01	—1·00	—0·17	—6·85
	Bellary	—0·10	+0·13	+0·62	+1·20	—0·94	+1·57	—0·92	+3·01	—3·03	—1·47	—1·19	—0·20	—1·32
	Gooty	—0·03	—0·05	—0·08	+0·06	—0·65	—1·02	—2·61	+6·8	—4·73	—1·25	—1·21	—0·11	—4·87
	Adoni	—0·04	+1·50	+0·22	+0·73	—0·86	+3·57	—1·41	+1·71	—4·97	—1·38	—0·81	—0·15	—1·89
	Dharmabharam.	—0·01	+0·03	—0·12	—0·41	—1·07	—0·41	—0·60	+2·15	—3·03	—0·65	—1·83	—0·25	—6·20
	Cuddapah	—0·14	—0·04	+0·22	—0·17	—1·30	+0·90	—1·42	+3·54	—5·27	+2·43	—2·61	—0·80	—4·66
	Madanapalle	—0·02	—0·13	+2·81	+0·30	—1·18	—0·73	—0·86	+3·57	—3·09	+1·96	—0·26	—0·98	+1·39
	Chittore	+0·28	—0·21	+0·62	+0·20	—1·22	—0·78	—1·47	+6·83	—0·36	+1·84	—2·34	—1·80	+1·59
	Vellore	+0·01	—0·33	+0·95	+0·68	—0·96	+2·82	—0·98	+5·14	—4·71	+6·54	—2·10	—2·75	+2·31
	Chandragiri	+0·23	—0·03	+0·32	+0·12	—1·49	—0·94	+0·36	+1·32	—3·78	+2·39	—2·08	—2·28	—5·86
	Arcot	—0·09	—0·44	+2·14	—0·20	+0·05	+0·64	—2·54	+2·91	—5·37	+9·87	—2·61	—2·65	+1·61
	Madras	+1·09	+0·03	+0·48	—0·09	—1·90	—1·22	—1·36	—2·73	—2·07	+8·72	—2·31	—4·85	—6·21
	Palmaner	+0·27	—0·03	+0·79	—0·43	+1·30	—0·74	+0·38	+2·24	—4·27	+0·46	—1·04	—1·43	—1·07
	Saidapet	+0·31	+0·10	+0·50	+0·93	—1·67	—1·49	—2·28	—1·90	+1·60	+9·80	—3·46	—4·99	—2·55
	Chingleput	—0·04	—0·32	+0·52	+1·80	—1·37	—1·01	—0·56	+2·73	—2·89	+7·87	—3·94	—4·11	—1·32
	Conjeeveram	+0·31	—0·26	+0·99	+2·21	+2·38	+0·3	1	—0·12	—4·73	+10·17	—4·42	—3·49	+2·92
	Tindivanam	—0·03	—0·21	+0·33	+2·72	—0·83	+1·04	+2·19	—0·48	—3·02	+5·22	—3·35	—3·79	—0·21
	Cuddalore	+0·31	—0·35	—0·34	+0·76	+1·28	—1·53	+0·36	+1·14	—3·58	+14·11	—3·23	—7·06	+1·87
	Vridhachalam	+0·76	—0·31	+1·21	+2·68	+2·81	—0·36	—1·67	+1·82	—0·23	+5·42	—0·76	—4·04	+7·34
	Udayarpalaiyam.	—0·10	—0·40	—0·31	+2·47	+0·30	—0·46	+0·13	+0·85	—1·47	+2·11	—1·18	—4·61	—2·67
	Salem	—0·26	—0·23	—0·49	+0·56	—0·61	+0·91	—1·47	—0·16	—2·68	—1·33	—2·13	—0·92	—8·81
	Atur	—0·29	—0·32	+3·28	+1·47	—1·63	+0·43	—0·55	+2·33	—1·84	—1·19	—2·56	—1·53	—2·49
	Shevaroy Hills	+0·82	—0·36	+0·77	—0·27	+2·18	—2·24	—3·48	+7·40	—4·83	—0·26	—0·79	—3·27	—4·33
	Kumbakonam	—0·55	—0·55	—0·51	+0·71	+2·18	—2·08	—2·39	+2·23	—2·64	+5·47	+0·17	—5·58	—3·54
	Tirupatur	0	—0·31	—0·36	+2·81	—1·78	—0·33	—2·66	+0·70	—4·32	+5·38	+5·24	—0·81	+3·56
	Hosur	+0·09	—0·31	+1·86	—0·79	—0·59	—0·66	—0·33	+0·58	—2·49	+1·40	—1·58	—0·86	—3·68

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1905 from the average of past years*—contd.

Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Madras—*contd.*	Tranquebar	—1·00	—0·46	—0·09	+0·35	+1·43	—1·19	—4·93	+1·54	+0·20	+6·79	—3·18	—9·59	— 7·13
	Negapatam	—0·60	—0·72	+0·03	+3·24	+0·10	—0·98	—1·56	+0·88	—1·26	+1·69	—5·67	—10·60	—15·45
	Tanjore	—0·52	—0·43	—0·42	—0·20	+1·08	—1·34	+0·10	+3·04	—0·90	+1·41	—0·65	—4·21	— 3·04
	Patukota	—0·59	—0·75	—0·53	—0·98	—0·92	—0·19	—2·15	+1·91	—1·08	+0·01	—0·62	—5·80	—11·69
	Trichinopoly	—0·64	—0·57	—0·39	—0·02	—2·22	+ 0·08	—1·52	—1·37	—3·01	—2·41	—0·44	—2·94	—15·48
	Karur	—0·20	—0·17	+0·54	+1·62	+2·55	+ 0·31	—1·01	—1·41	—2·37	—3·58	—2·18	—1·43	— 7·33
	Coimbatore	—0·31	—0·31	—0·53	—0·50	+0·58	— 0·42	—0·53	—0·60	—0·34	+5·10	—1·84	—1·00	— 0·70
	Kollegal	—0·15	+0·94	—0·08	+0·10	—2·03	— 1·47	+0·55	—0·46	—3·02	+2·79	—1·82	—0·56	— 5·21
	Dindigul	—0·44	—0·42	+0·08	+1·99	—0·52	— 0·33	—1·34	—0·03	—0·74	+0·84	+0·76	—2·69	— 2·86
	Madura	—0·51	+0·78	— 0·63	—0·93	+0·36	+ 0·06	—2·00	+0·02	—1·38	+0·48	—2·03	—2·04	— 7·82
	(Obsy.) Vattanum	—0·93	—0·64	—0·80	—1·35	+0·89	+ 0·18	—0·92	—0·97	—0·51	+0·60	—0·56	—5·59	—10·60
	Periyakulam	—0·58	—0·55	—0·52	+2·33	+3·11	+ 0·74	—0·55	—1·24	+0·55	+3·11	—2·60	—1·47	+ 2·33
	Tinnevelly	—0·73	—0·46	—1·43	+3·01	+1·74	— 0·23	—0·22	—0·45	+0·50	+4·54	—1·65	—3·41	+ 1·16
	Tuticorin	—0·44	—0·15	—0·82	+0·98	+2·00	+ 0·37	—0·16	+ 0·04	—0·23	+0·64	+ 1·25	—2·65	+ 0·83
	Satur	—0·31	—0·54	—0·69	+2·29	+1·58	— 0·24	+0·46	—0·72	—1·33	+2·13	+0·86	—2·00	+ 1·49
	Cochin	—0·80	+0·18	—1·54	—3·18	+2·00	— 4·04	—8·26	—6·59	—3·83	+9·86	—2·78	—1·72	—20·70
	Palghat	—0·06	—0·14	—0·75	—0·74	—0·32	+ 3·79	+3·27	—3·87	—0·70	+4·52	—0·48	—0·64	+ 3·88
	Wellington	—0·53	+4·86	—1·82	+0·34	+2·96	— 1·79	+0·44	+ 4·23	—0·35	+8·54	+3·77	—3·82	+16·83
	Manantoddy	—0·20	+1·04	—0·70	—2·53	+2·23	— 0·43	—3·42	—6·40	+0·90	+5·79	—0·59	—0·48	— 4·79
	Calicut	—0·17	—0·16	—0·79	—3·67	—0·21	+ 0·01	—2·85	—6·13	+2·70	+5·20	—0·43	—1·32	— 7·82
	Tellicherry	—0·27	+0·20	—0·39	—3·38	+6·05	— 4·42	—7·90	—4·34	—0·77	+4·36	—0·67	—0·87	—12·40
	Cannanore	—0·32	—0·22	—0·21	—2·67	+0·35	+ 7·59	+3·88	—1·94	—1·02	+3·54	—1·51	—0·46	+ ·01
	Mangalore	—0·13	—0·07	—0·11	—2·06	+0·53	+13·31	—9·44	+7·38	—6·94	+8·28	+1·39	—0·50	+11·64
Mysore and Coorg.	Bangalore	+ 0·01	—0·29	+1·51	+0·10	—0·96	— 0·74	—1·81	+4·49	—4·65	+2·23	—1·46	—0·27	— 1·77
	Mysore	—0·07	—0·17	—0·64	—0·21	+1·47	— 1·08	+0·09	—0·40	—4·06	—0·52	—1·30	—0·43	— 7·32
	Shimoga	—0·06	—0·13	—0·34	—1·18	+2·77	— 2·75	—0·76	—0·57	—2·19	+1·27	—0·38	—0·34	— 4·64
	Mercara	—0·18	+0·45	—0·51	—2·25	+0·86	— 4·63	—11·28	—5·73	—4·44	+1·73	—0·59	—0·50	—27·07
	Kolar	+0·32	—0·04	—0·10	—1·13	—1·58	— 2·99	—2·51	—1·16	—3·56	+0·03	—0·04	—0·46	—13·22
	Tumkur	+0·16	+4·51	—0·18	—0·82	—1·19	— 0·93	—2·40	+3·70	—5·43	—1·93	—1·03	—0·36	— 5·90
	Chitaldroog	—0·16	+0·14	—0·25	—1·47	—1·19	+ 0·89	—1·05	—1·29	—2·60	+0·35	—1·58	—0·37	— 8·58
	Chiknagalur	—0·20	—0·20	+0·40	—1·90	+0·72	— 3·13	—1·58	—2·05	—2·55	+0·66	—0·74	—0·46	—11·03
	Hassan	—0·61	+0·10	—0·35	—1·86	—0·31	— 2·24	+0·42	—0·41	—1·22	+2·69	—1·70	—0·59	— 6·08
Ceylon.	Trincomalee	—3·50	—1·22	—1·38	+7·12	—1·11	— 1·26	—0·09	—0·85	—0·61	—4·09	+1·89	—9·89	—14·99
	Colombo	+0·81	+0·85	—3·48	—5·17	+1·44	— 3·90	—3·21	—3·22	+5·77	+0·45	—7·43	—5·87	—22·96
	Ratnapura	—1·06	+0·23	—0·70	+3·97	—0·65	— 1·37	—5·16	—2·52	—0·23	—0·37	—3·62	—4·23	—15·71

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1905 from the average of past years*—contd

PROVINCE.	STATION.	January.	Febuary.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
CEYLON—*concld.*	Puttalam	—1·19	?	—2·25	+5·66	+1·30	—0·71	—0·41	—0·72	—0·71	+7·49	—3·99	—4·49	?
	Anuradhapur	—1·07	+2·49	+0·46	—3·76	—0·85	—1·26	—1·07	—1·67	—1·88	—2·71	+0·87	—5·12	—15·57
	Mannar	—1·50	—0·75	—1·50	+3·79	+0·49	—0·62	—0 23	+0·15	—1·04	+0·01	—4·79	—6·32	—12·31
	Jaffna	—0·46	—1·22	—0·77	+4·41	—0·19	—0·73	—0·75	+0·44	—1·60	+1·77	—4·29	—6·87	—10·26
	Batticoloa	+0·99	—1·34	—3·03	+9·63	+1·88	+1·84	—1·03	+2·91	+0·74	?	+10·05	—9·93	?
	Hambantota	—3·38	—0 87	—2·01	+0·59	+2·85	—1·82	—1·22	—0·94	—1 61	—0·38	+2·64	+1·28	—4·87
	Galle	—2·69	—1·31	—4·14	+11·90	+1·64	—0·48	—1·79	—3·48	—1·36	—2·82	—1·82	—3·84	—19·19
	Kandy	—3·80	—2·19	—3·39	—3·68	+3·75	+3·91	—1·85	—3·03	+0·77	+1·88	—6·06	—5·46	—19·15
	Nuwara Eliya	—3·12	+1·96	+0·20	+1·56	+0·62	+0·19	—6·30	—4·65	+0·03	—0·64	+0·75	—4·38	—13·78
	Hakgala	—2·84	+2·47	—2·79	+1·06	+0·26	+0·24	—3·10	—3·50	—0·54	—2·38	+3·21	—7·73	—15·55
	Badulla	—4·37	—0·16	—2·79	—2·51	—1·35	+0·57	—0·62	—1·93	+0·83	—1·65	+0·56	—5 97	—19·39
BURMA.	Akyab	—0·12	—0·09	+5·23	+0·43	+2·43	—5·87	+20·13	+17·40	+6·50	—2·96	—2·99	+1·83	+41·92
	Kyaukpyu	+0·02	+0·22	+0·14	—0·05	+3·64	—6·00	+6·41	+10·48	+5·54	—3·86	—3·67	+2·55	+15·42
	Sandoway	—0·08	—0·07	+0·12	—1·07	+1·75	+8·52	+12·37	—1·82	+2·39	—2·40	—0·21	+0·34	+19·84
	Rangoon	—0·11	—0·23	—0·16	—1·74	—1·39	+1·39	+8·36	—3·73	+6·46	—0·84	—1·87	—0·05	+6·09
	Bassein	—0·17	—0·20	—0·05	—1·37	+0·49	+8·72	+2·21	—6·55	+2·05	+3·30	—3·23	+2·56	+7·76
	Diamond Island.	—0·24	—0·07	—0·05	—1·38	—1·98	+12·01	—3·75	—3·24	—2·17	+0·53	—5·23	+1·54	—4·03
	Henzada	—0·07	—0·18	—0·04	—0·87	+6·80	+1·56	+4·12	+5·70	+4·57	—1·01	—1·66	+0·50	+19·42
	Myanaung	—0·05	—0·02	—0·01	—0·96	—0·44	+1·58	+2·01	+0·83	+2·12	—3·54	+0·25	+0·49	+2·26
	Prome	—0·02	+0·08	+0·16	—0·74	—1·92	+0·12	+2·19	—1·86	+2·94	+1·85	—1·45	+0·64	+1·99
	Thayetmo	—0·02	+0·20	+0·50	—0·44	—0·49	—1·13	+1·57	—2·72	+5·39	—0·72	—1·44	+1·02	+1·72
	Mandalay	—0·06	0	+1·43	—1·11	+2·70	—2·69	—1·63	+0·68	+7·59	—0·02	—0·50	+1·64	+7·97
	Shwebo	—0·08	+0·13	+0·53	—0·64	+4·12	—4·14	—0·30	—2·93	+10·08	+0·10	—0·05	+1·22	+8·04
	Yeu	—0·08	+0·08	+1·09	—0·55	+1·96	—1·70	—1·04	—5·55	+0·86	+0·86	—0·20	+0·60	—2·67
	Mimbu	—0·04	+0·06	+0·83	—0·52	—0·23	+1·20	+2·05	—3·24	+2·08	+0·35	—0·43	+1·28	+3·99
	Pyinmana	—0·06	+0·22	—0·03	—1·35	—2·27	+2·89	—0·52	+1·58	+1·17	+1·98	—1·40	+0·29	+2·50
	Pagan	—0·03	—0 03	+2·78	—0·53	+0·47	—0·79	—1·65	+0·75	+4·92	—2·59	—0·87	+1·54	+3·97
	Kyauksai	—0·19	—0·07	+2·41	—1·23	—0·87	—2·35	—1·39	—3·15	+5·88	+2·70	—1·40	+0·83	+1·16
	Bhamo	—0·71	+0·39	+1·57	—1·06	—1·80	+2·08	—11·02	—5·98	—1·35	+1·07	—0·87	+1·53	—16·15
	Kindat	—0·25	+0·27	+2·59	—1·17	+5·39	—3·66	+0·83	—4·96	—3·86	+4·45	—1·33	+0·08	—1·62
	Magwe	0	—0·02	+0·35	—0·90	—1·45	+1·12	+0·29	—2·33	+1·33	—2·79	—0·50	+0·86	—4·04
	Yamethin	—0·05	+0·16	+0·55	—2·04	—1·79	—0·14	—1·49	—4·25	+7·39	+2·60	—1·24	—0·96	—0·45
	Fort Sagaing	—0·03	—0·04	+1·60	—0·97	—0·35	—0·67	—2·91	—2·04	+6·22	+3·48	—1·36	+1·31	+4·24
	Mingin	—0·11	+0·07	+2·78	—0·46	+9·13	—0·54	+0·45	—3·23	+4·34	+1·14	—1·35	+0 62	+12·84

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1905 from the average of past years*—concld.

PROVINCE.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November	December.	TOTAL.
BURMA—*concld.*	Toungoo	—0·06	—0·08	+0·48	—1·38	—2·11	+6·07	—2·30	+0·99	+7·70	—1·44	+3·01	+0·06	+10·94
	Shwegyin	—0·12	—0·34	—0·28	—1·78	+3·36	+5·24	+4·92	+0·70	—4·43	—0·50	—1·54	—0·07	+5·16
	Moulmein	—0·17	—0·13	—0·23	—2·88	—7·14	+11·45	+2·52	—9·72	—4·67	+3·36	+1·71	—0·03	—5·93
	Tavoy	—0·17	—0·30	—0·77	—3·86	+2·50	+20·11	+12·88	—14·03	+3·48	+4·44	—1·58	+0·15	+31·85
	Mergui	—0·24	—0·21	—1·95	—5·66	—4·54	—1·11	—2·99	—4·36	+3·37	+3·61	—1·64	+0·03	—15·69
	Myingyan	—0·04	—0·05	+2·05	—0·33	—0·89	—2·22	—1·42	—0·10	+1·04	—0·12	—1·06	+1·11	—2·03
	Monywa	0	+0·21	+2·55	—0·45	+5·08	—2·59	—0·36	—3·76	+8·07	—0·62	—0·89	+1·11	+8·35
BAY ISLANDS.	Port Blair	—0·85	+0·96	—0·21	—1·88	—5·62	+6·81	—0·95	—1·80	—7·16	—1·41	—7·53	+8·02	—13·54
	Cocos Island	—0·31	—0·14	0	—0·93	+0·66	+15·55	+0·96	—2·97	+0·95	+0·41	—5·91	+2·48	+10·78
KASHMIR.	Leh	+0·28	—0·19	+0·64	—0·10	+0·06	—0·19	+0·23	—0·51	+0·66	—0·15	—0·03	+0·06	+0·76
	Srinagar	—0·09	—2·10	+1·60	—1·12	+0·30	—0·81	—1·88	—0·93	+3·26	—0·57	—0·24	+2·01	—0·57
	Skardu	—0·54	—0·98	+0·14	—1·55	+0·20	—0·32	+0·03	—0·52	+1·89	—0·02	—0·09	+0·54	—1·25
	Gilgit	—0·10	—0·15	+1·20	—0·23	+1·59	—0·16	—0·42	—0·25	+1·71	—0·08	—0·04	+0·12	+3·19
NEPAL	Katmandu	—0·23	+1·61	—0·69	+1·65	+1·43	—2·34	—3·72	—1·30	+2·97	—2·19	—0·18	—0·26	—3·25
EXTRA INDIA.	Meshed	+0·82	—0·83	—0·40	—1·05	—0·15	?	—0·02	+0·32	—0·07	+0·54	—0·54	+0·36	?
	Teheran	+0·58	—0·25	—1·13	?	?	?	?		?	?	?	?	?
	Ispahan	+0·72	—0·21	+0·84	—0·47	+0·07	0	—0·05	+0·09	0	—0·27	—0·79	—0·02	—0·09
	Bushire	—2·80	—1·39	+0·61	—0·48	+0·23	0	0	0	0	—0·12	—1·88	—2·04	—7·87
	Jask	—0·24	+0·22	+0·54	—0·03	0	—0·10	—0·02	0	0	—0·06	+0·34	+2·43	+3·08
	Muscat	—0·22	+0·97	+1·21	—0·03	0	—0·32	—0·04	0	0	—0·01	—0·44	+0·45	+0·67
	Baghdad	—0·80	—1·81	+0·44	—0·74	0·19	—0·01	0	—0·09	+0·02	—0·04	—0·99	—1·52	—5·73
	Aden	+1·50	—0·23	+1·23	—0·25	—0·17	+0·46	—0·04	+0·01	+0·48	—0·01	—0·13	—0·10	+2·75
	Perim	—0·04	—0·30	+0·75	+1·00	—0·37	0	—0·17	—0·42	0	—0·05	+0·17	—0·06	+0·51
	Kabul	—1·02	—0·83	—1·26	—1·47	—0·30	—0·04	—0·21	—0·16	—0·02	—0·10	—0·04	+1·59	—3·86
	Kashgarh	+0·11	+0·03	+3·17	+0·45	+0·98	—0·40	+0·06	—0·71	—0·29	—0·03	—0·02	—0·18	+3·17
	Amini Divi	—0·18	0	0	—2·58	+6·91	+3·90	—4·36	+6·80	—2·14	+1·80	+1·74	—0·32	+11·57
	Minicoy	+0·36	—0·35	—0·98	—3·67	+0·14	+7·18	—3·96	+8·37	—1·74	+1·68	+2·12	—4·66	+4·52
	Zanzibar	—0·90	—1·43	—1·33	+18·58	—0·03	+0·53	+1·33	+0·93	+0·88	+1·96	—5·44	+1·38	+16·46
	Port Victoria (Seychelles).	—3·48	—4·26	—9·00	—0·86	+5·42	—4·91	—1·93	+3·42	+7·72	—5·06	—6·37	+10·62	— 8·69
	Mauritius	+14·00	—3·72	+6·80	—3·09	—0·70	+0·79	—0·59	+0·06	+0·64	+0·48	+2·30	+3·80	+20·77

TABLE XXVIII.—*Geographical summary of rainfall in 1905.*

Meteorological Division.	Area square miles.	Number of stations.	Normal rainfall.	Actual rainfall.	Mean excess or defect.	Total excess square miles × 1 inch.	Total defect square miles × 1 inch.
			Inches.	Inches.	Inches.		
I. Punjab Plains	120,000	29	21·28	15·76	— 5·52	.....	662,400
II. United Provinces of Agra and Oudh	83,500	44	38·18	27·26	—10·92	.....	911,820
IIa. Rajputana East	67,000	29	25·98	10·08	—15·90	.....	1,065,300
IIb. „ West	58,000	10	11·71	3·90	— 7·81	.....	452,980
IV. Central India States	91,000	24	43·40	29·56	—13·84	.....	1,259,440
V. Bihar	30,000	15	45·58	55·28	+ 9·70	291,000	.....
VI. Western Bengal	38,000	14	53·69	54·91	+ 1·22	46,360	.....
VII. Lower „	54,000	28	66·16	81·72	+15·56	840,240	.....
VIII. Assam and Cachar	61,600	17	95·09	107·51	+12·42	757,620	...
IX. Orissa and Northern Circars	27,000	32	51·87	46·64	— 5·23	.....	141,210
X. Central Provinces, South	61,000	19	52·47	48·02	— 4·45	.....	271,450
XI. Berar and Khandesh	43,000	12	34·92	24·94	— 9·98	.....	429,140
XII. Gujarat	54,500	13	33·02	26·21	— 6·81	.....	371,145
XIII. Sind and Cutch	68,000	10	8·26	3·69	— 4·57	.....	310,760
XIV. North Deccan	48,000	13	30·78	19·67	—11·11	.....	533,280
XV. Konkan and Ghat	16,000	11	139·17	90·12	—49·05	.....	784,800
XVI. Malabar and Ghats	18,000	8	114·93	108·65	— 6·28	.....	113,040
XVII. Hyderabad	74,000		33·54	27·19	— 6·35	.....	469,900
XVIII. Mysore and Bellary	58,000	18	29·15	23·95	— 5·20	.....	301,600
XIX. Carnatic	22,000	36	36·84	33·59	— 3·25	.....	234,000
XX. Arakan	11,000	6	154·03	176·61	+22·58	248,380	.....
XXI. Pegu	32,500	7	72·55	79·71	+ 7·16	232,700	.....
XXII. Tenasserim	10,500	4	173·33	177·18	+ 3·85	40,425	.....
XXIII. Upper Burma	?	13	39·50	41·10	+ 1·60	.....	.....

On the mean of the whole area represented in the above table there was a defect of 4·90 inches, or excluding Burma of 5·58 inches.

TABLE XXIX.—*Geographical summary of the distribution of rainfall in 1905 according to seasons.*

Meteorological division.	January and February.			March to May.			June to October.			November and December.		
	Normal over division.	Actual.	Difference.	Normal over division.	Actual.	Difference.	Normal over division.	Actual.	Difference.	Normal over division.	Actual.	Difference.
	"	"	"	"	"	"	"	"	"	"	"	"
North-West Himalayas	6·03	10·16	+4·13	7·11	7·63	+0·52	42·43	29·68	−12·75	1·66	1·97	+0·31
Punjab Plains	2·21	3·58	+1·37	2·42	1·65	−0·77	15·92	9·68	−6·24	0·73	0·84	+0·11
United Provinces of Agra and Oudh.	1·52	2·31	+0·79	1·38	1·47	+0·09	35·81	24·40	−11·41	0·45	0·14	−0·31
Rajputana	0·49	0·50	+0·01	0·78	0·27	−0·51	21·45	7·69	−13·76	0·39	0·03	−0·36
Central India States	1·00	0·66	−0·34	0·76	0·75	−0·01	40·97	28·11	−12·86	0·66	0·05	−0·61
Bihar	1·26	1·46	+0·20	2·50	4·63	+2·13	41·12	48·57	+7·45	0·32	0·04	−0·28
Western Bengal and Chota Nagpur.	1·51	3·48	+1·97	3·63	5·64	+2·01	47·96	45·70	−2·26	0·60	0·11	−0·49
Lower Bengal	1·39	2·43	+1·04	10·55	17·34	+6·79	53·08	61·30	+8·22	0·71	0·24	−0·47
Eastern Himalayas	1·64	1·93	+0·29	18·03	17·21	−0·82	103·92	124·86	+20·94	0·55	1·43	+0·88
Assam and Eastern Bengal	1·83	1·22	−0·61	22·64	23·10	+0·46	69·44	81·72	+12·28	1·19	1·46	+0·27
Orissa and Northern Circars	0·74	1·35	+0·61	4·81	8·95	+4·14	44·11	36·52	−7·59	2·18	0·16	−2·02
Central Provinces, South	0·93	1·47	+0·54	1·85	2·13	+0·28	48·85	44·42	−4·43	0·83	0	−0·83
Berar and Khandesh	0·52	0·28	−0·24	1·09	0·42	−0·67	32·34	24·14	−8·20	0·99	0·09	−0·90
Gujarat	0·18	0·04	−0·14	0·37	0·08	−0·29	31·95	26·18	−5·77	0·30	0	−0·30
Sind and Cutch	0·49	1·08	+0·59	0·45	0·13	−0·32	7·89	3·05	−4·84	0·21	0·10	−0·11
North Deccan	0·18	0·02	−0·16	3·50	2·57	−0·93	25·65	16·63	−9·02	1·45	0·46	−0·99
Konkan and Ghats	0·22	0·02	−0·20	1·71	0·52	−1·19	131·63	83·72	−47·91	0·90	1·00	+0·10
Malabar and Ghats	0·52	0·41	−0·11	11·34	9·60	−1·74	99·16	96·26	−2·90	3·91	2·39	−1·52
Hyderabad	0·26	0·28	+0·02	1·87	2·16	+0·29	29·71	24·62	−5·09	1·30	0	−1·30
Ceded Districts and Mysore	0·24	0·51	+0·27	4·80	4·16	−0·64	21·60	18·37	−3·23	2·52	0·91	−1·61
Carnatic	0·92	0·55	−0·37	4·07	5·45	+1·38	21·12	22·27	+1·15	10·66	5·32	−5·34
Nilgiris	2·53	6·86	+4·33	9·96	11·44	+1·48	26·70	37·77	+11·07	10·92	10·87	−0·05
Arakan	0·77	0·31	−0·46	14·96	20·97	+6·01	135·45	153·43	+17·98	2·87	1·92	−0·95
Pegu	0·20	0·05	−0·15	8·95	7·81	−1·14	66·22	73·94	+7·72	2·60	2·00	−0·60
Tenasserim	0·98	0·55	−0·43	22·36	16·56	−5·80	147·69	158·52	+10·83	2·31	1·57	−0·74
Upper Burma	0·21	0·19	−0·02	6·18	8·11	+1·93	30·29	30·00	−0·29	1·48	1·56	+0·08
Bay Islands	1·15	0·03	−1·12	15·45	11·46	−3·99	69·09	74·28	+5·19	10·68	9·21	−1·47

TABLE XXX.—*Average over the 57 meteorological divisions of the actual and normal rainfall for the four seasons of the year 1905 and for the whole year.*

Province.	Division.	January and February.			March to May.			June to October.			November and December.			Whole Year.		
		Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.
		Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches
Burma	1. Tenasserim	0·48	0·63	−0·15	20·05	27·86	−7·81	180·71	165·06	+15·65	1·17	2·16	−0·99	202·41	195·71	+6·70
	2. Lower Burma, Deltaic	·0	0·22	−0·22	11·85	13·90	−2·05	95·67	88·83	+6·84	1·43	1·77	−0·34	108·95	104·72	+4·23
	3. Central do.	0·03	0·07	−0·04	6·00	7·65	−1·65	52·87	46·57	+6·30	1·57	1·23	+0·34	60·47	55·52	+4·95
	4. Upper do.	0·22	0·30	−0·08	8·88	7·28	+1·60	36·61	32·39	+4·22	1·53	1·61	−0·08	47·24	41·58	+5·66
	5. Arakan	0·57	0·19	+0·38	18·04	14·17	+3·87	177·26	155·71	+21·55	2·07	1·93	+0·14	197·94	172·00	+25·94
Bengal and Assam	6. Eastern Bengal	1·18	1·42	−0·24	25·43	17·23	+8·20	85·28	69·85	+15·43	0·65	1·27	−0·62	112·54	89·77	+22·77
	7. Assam Surma	0·84	2·28	−1·44	31·17	38·21	−7·04	111·81	88·34	+23·47	1·10	1·61	−0·51	144·92	130·44	+14·48
	8. Do. Hills	1·55	1·97	−0·42	27·04	27·26	−0·22	113·20	106·42	+6·78	1·52	1·60	−0·08	143·31	137·25	+6·06
	9. Do. Brahmaputra	1·61	2·21	−0·60	21·99	23·80	−1·81	65·39	62·94	+2·45	2·25	0·95	+1·30	91·24	89·90	+1·34
	10. Deltaic Bengal	3·01	1·42	+1·59	16·29	9·88	+6·41	56·71	48·89	+7·82	0·21	0·91	−0·70	76·22	61·10	+15·12
	11. Central do.	2·38	1·21	+1·17	12·91	6·73	+6·18	50·24	47·66	+2·58	0·18	0·52	−0·34	65·71	56·12	+9·59
	12. North do.	1·33	1·02	+0·31	19·89	16·58	+3·31	93·83	82·53	+11·30	0·51	0·30	+0·21	115·56	100·43	+15·13
	13. Bengal Hills	2·43	1·70	+0·73	14·32	14·82	−0·50	103·08	93·18	+9·90	1·57	0·52	+1·05	121·40	110·22	+11·18
	14. Orissa	1·84	1·00	+0·84	9·24	6·03	+3·21	35·98	48·85	−12·87	0·05	1·63	−1·58	47·11	57·51	−10·40
	15. Chota Nagpur	3·88	1·30	+2·58	5·77	3·81	+1·96	43·47	48·50	−5·03	0·11	0·55	−0·44	53·23	54·16	−0·93
	16. South Bihar	1·84	1·40	+0·44	4·05	2·05	+2·00	44·82	41·36	+3·46	0·03	0·38	−0·35	50·74	45·19	+5·55
	17. North do.	1·54	1·13	+0·41	6·45	4·21	+2·24	57·40	47·53	+9·87	0·01	0·20	−0·19	65·40	53·07	+12·33
United Provinces of Agra and Oudh	18. United Provinces, East	1·15	1·20	−0·05	1·60	0·87	+0·73	35·46	37·46	−2·00	0	0·39	−0·39	38·21	39·92	−1·71
	19. South Oudh	1·47	1·15	+0·32	1·13	0·89	+0·24	24·74	35·20	−10·46	0·05	0·46	−0·41	27·39	37·70	−10·31
	20. North do.	1·91	1·31	+0·60	1·88	1·53	+0·35	33·44	39·12	−5·68	0·11	0·43	−0·32	37·34	42·39	−5·05
	21. United Provinces, Central.	1·24	0·99	+0·25	0·62	0·71	−0·09	13·34	32·60	−19·26	0·01	0·49	−0·48	15·21	34·79	−19·58
	22. United Provinces, West	2·28	1·14	+1·14	0·80	0·96	−0·16	9·15	23·67	−14·52	0·08	0·42	−0·34	12·31	26·19	−13·88
	23. United Provinces, East Submontane.	1·33	1·22	+0·11	2·24	1·73	+0·51	42·57	42·24	+0·33	0·08	0·25	−0·17	46·22	45·44	+0·78
	24. United Provinces, West Submontane.	4·76	2·65	+2·11	2·00	1·86	+0·14	22·22	42·41	−20·19	0·39	0·72	−0·33	29·37	47·64	−18·27
	25. United Provinces Hills	6·76	4·82	+1·94	6·20	4·53	+1·67	38·24	52·85	−14·61	0·73	1·08	−0·35	51·93	63·28	−11·35
Punjab	26. South-East Punjab	2·15	1·33	+0·82	0·97	1·11	−0·14	8·48	19·45	−10·97	0·09	0·48	−0·39	11·69	22·37	−10·68
	27. South do.	2·79	1·46	+1·33	0·63	1·11	−0·48	9·29	13·38	−4·09	0·29	0·42	−0·13	13·00	16·37	−3·37
	28. Central do.	3·55	2·24	+1·31	1·37	1·98	−0·61	13·22	14·11	−0·89	0·82	0·60	+0·22	18·96	18·92	+0·03
	29. Punjab Submontane	5·29	3·48	+1·81	2·44	2·68	−0·24	15·82	22·95	−7·13	1·06	0·91	+0·15	24·61	30·02	−5·41
	30. Do. Hills	8·86	6·93	+1·93	9·10	6·85	+2·25	31·09	43·58	−12·49	1·41	1·89	−0·48	50·46	59·25	−8·79
	31. West Punjab	2·08	1·10	+0·98	0·86	1·29	−0·43	5·38	6·20	−0·82	0·81	0·33	+0·48	9·13	8·92	+0·21

TABLE XXX.—*Average over the 57 meteorological divisions of the actual and normal rainfall for the four seasons of the year 1905 and for the whole year*—concluded.

Province.	Division.	January and February.			March to May.			June to October.			November and December.			Whole Year.		
		Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.
		Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches
North-West Frontier Province.	32. North-West Frontier Province.	4·68	2·85	+ 1·83	5·41	4·35	+ 1·06	6·73	9·67	— 2·94	2·53	1·07	+ 1·46	19·35	17·94	+ 1·41
Bombay and Malabar Coast Districts (Madras).	33. Malabar	0·32	0·38	— 0·06	8·74	10·89	— 2·15	107·75	109·95	— 2·20	2·39	4·21	— 1·82	119·20	125·43	— 6·23
	33A. Travancore	1·23	...	...	17·74	...	...	60·46	...	...	3·95	.	...	83·38	...	...
	34. Madras, South Central	0·19	0·46	— 0·27	7·35	5·98	+ 1·37	16·12	18·44	— 2·32	2·16	5·18	— 3·02	25·82	30·06	— 4·24
	35. Coorg	0·52	...	...	7·77	...	...	69·02	...	...	1·60	...	...	78·91	...	...
	36. Mysore	0·38	0·11	+ 0·27	6·50	5·19	+ 1·31	20·13	26·15	— 6·02	0·96	3·15	— 2·19	27·97	34·60	— 6·63
	37. Konkan	0·01	0·18	— 0·17	0·74	1·98	— 1·24	67·53	110·05	— 42·52	0·70	0·94	— 0·24	68·98	113·15	— 44·17
	38. Bombay Deccan	0·07	0·17	— 0·10	2·46	3·09	— 0·63	19·34	31·05	— 11·71	0·39	1·34	— 0·95	22·26	35·65	— 13·39
	39. Hyderabad, North	0·30	0·24	+ 0·06	1·55	1·50	+ 0·05	24·63	32·76	— 8·13	0	1·31	— 1·31	26·48	35·81	— 9·33
	40. Khandesh	0·05	0·24	— 0·19	0·27	0·83	— 0·56	20·25	29·22	— 8·97	0·25	0·70	— 0·45	20·82	30·99	— 10·17
Central Provinces and Berar.	41. Berar	0·45	0·52	— 0·07	0·42	0·98	— 0·56	25·60	29·73	— 4·13	0·01	0·87	— 0·86	26·48	32·10	— 5·62
	42. Central Provinces, West.	0·58	0·78	— 0·20	0·68	1·01	— 0·33	44·20	41·49	+ 2·71	0	0·80	— 0·80	45·46	44·08	+ 1·38
	43. Central Provinces, Central.	0·87	1·01	— 0·14	1·89	1·29	+ 0·60	36·97	48·10	— 11·13	0·03	0·71	— 0·68	39·76	51·11	— 11·35
	44. Central Provinces, East	3·17	0·86	+ 2·31	2·92	1·93	+ 0·99	40·91	48·83	— 7·92	0	0·70	— 0·70	47·00	52·32	— 5·32
Bombay (North).	45. Gujarat	0·65	0·15	— 0·10	0·04	0·25	— 0·21	30·19	40·76	— 10·57	0·01	0·29	— 0·28	30·29	41·45	— 11·16
	46. Kathiawar and Cutch	0·04	0·15	— 0·11	0·06	0·28	— 0·22	20·77	26·69	— 5·92	0·01	0·38	— 0·37	20·88	27·50	— 6·62
	47. Sind	0·98	0·53	+ 0·45	0·18	0·39	— 0·21	1·48	5·51	— 4·03	0·09	0·20	— 0·11	2·73	6·63	— 3·90
	48. Baluchistan Hills	5·79	2·86	+ 2·93	2·62	1·86	+ 0·16	0·58	2·17	— 1·59	2·66	1·47	+ 1·19	11·05	8·36	+ 2·69
Rajputana and Central India.	49. Central India, East	0·63	0·79	— 0·16	0·59	0·55	+ 0·04	23·46	36·74	— 13·28	0·04	0·65	— 0·61	24·72	38·73	— 14·01
	50. Rajputana East, Central India, West.	0·72	0·65	+ 0·07	0·27	0·73	— 0·46	8·65	23·19	— 14·54	0·04	0·59	— 0·55	9·68	25·16	— 15·48
	51. West Rajputana	0·32	0·29	+ 0·03	0·11	0·44	— 0·33	4·40	10·74	— 6·34	0·02	0·35	— 0·33	4·85	11·82	— 6·97
Madras	52. East Coast, North	0·76	0·49	+ 0·27	7·37	3·58	+ 3·79	28·81	34·11	— 5·30	0·26	3·38	— 3·12	37·20	41·56	— 4·36
	53. Hyderabad, South	0·24	0·26	— 0·02	2·72	2·15	+ 0·57	21·40	25·99	— 4·59	0	1·32	— 1·32	24·36	29·72	— 5·36
	54. Madras, Central	0·24	0·12	+ 0·12	2·50	2·46	+ 0·04	18·97	19·70	— 0·73	0·47	2·63	— 2·16	22·18	24·91	— 2·73
	55. East Coast, Central	0·37	0·63	— 0·06	1·27	1·87	— 0·60	23·09	20·10	+ 2·99	3·95	10·90	— 6·95	28·88	33·50	— 4·62
	56. East Coast, South	0·66	0·90	— 0·24	4·55	3·41	+ 1·14	26·18	24·41	+ 1·77	6·93	14·17	— 7·24	38·32	42·89	— 4·57
	57. Madras, South	0·65	1·40	— 0·75	7·08	4·92	+ 2·16	12·96	12·38	+ 0·58	7·19	9·82	— 2·63	27·88	28·52	— 0·64

TABLE XXXI.—*Averages over the 57 meteorological divisions of the actual and normal number of rainy days for the four seasons of the year 1905 and for the whole year.*

Province.	Division.	January and February.			March to May.			June to October.			November and December.			Whole Year.		
		Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.
Burma	1. Tenasserim	1·1	1·1	0	15·7	25·1	−9·4	117·4	114·4	+3·0	2·6	3·7	−1·1	136·8	144·3	−7·5
	2. Lower Burma, Deltaic	0	0·3	−0·3	11·8	17·6	−5·8	105·6	103·1	+2·5	2·0	2·9	−0·9	119·4	123·9	−4·5
	3. Central Burma	0·1	0·1	0	7·4	11·2	−3·8	77·0	75·0	+2·0	2·6	2·6	+0·6	87·1	88·3	−1·2
	4. Upper do.	0·8	0·7	+0·1	13·6	11·3	+2·3	46·5	45·2	+1·3	3·1	2·9	+0·2	64·0	60·1	+3·9
	5. Arakan	1·0	0·3	+0·7	15·1	14·1	+1·0	106·1	105·0	+1·1	2·8	2·7	+0·1	125·0	122·1	+2·9
Bengal and Assam	6. Eastern Bengal	2·9	2·5	+0·4	30·1	19·1	+11·0	79·4	72·2	+7·2	1·3	1·5	−0·2	113·7	95·3	+18·4
	7. Assam Surma	2·6	4·3	−1·7	40·2	37·1	+3·1	101·7	87·2	+14·5	2·2	2·1	+0·1	146·7	130·7	+16·0
	8. Do. Hills	3·9	4·3	−0·4	37·3	30·2	+7·1	94·4	89·6	+4·8	3·9	3·1	+0·8	139·5	127·2	+12·3
	9. Do. Brahmaputra	5·2	5·6	−0·4	32·8	32·5	+0·3	73·4	69·1	+4·3	3·8	2·2	+1·6	115·2	109·4	+5·8
	10. Deltaic Bengal	5·2	2·3	+2·9	21·5	13·8	+7·7	64·4	62·1	+2·3	0·6	1·2	−0·6	91·7	79·4	+12·3
	11. Central do.	5·6	2·4	+3·2	16·0	10·0	+6·0	60·8	58·3	+2·5	0·7	0·8	−0·1	83·1	71·5	+11·6
	12. North do.	3·1	2·3	+0·8	24·3	18·7	+5·6	74·2	66·7	+7·5	1·2	0·7	+0·5	102·8	88·4	+14·4
	13. Bengal Hills	5·8	3·9	+1·9	27·5	25·8	+1·7	89·6	89·2	+0·4	5·0	1·4	+3·6	127·9	120·3	+7·6
	14. Orissa	4·0	1·8	+2·2	15·7	9·0	+6·7	52·7	58·4	−5·7	1·0	2·0	−1·0	73·4	71·2	+2·2
	15. Chota Nagpur	7·8	2·7	+5·1	11·4	6·9	+4·5	54·9	58·1	−3·2	0·6	0·9	−0·3	74·7	68·6	+6·1
	16. South Bihar	5·2	2·9	+2·3	7·6	3·6	+4·0	45·9	47·0	−1·1	0·1	0·6	−0·5	58·8	54·1	+4·7
	17. North do.	4·0	2·4	+1·6	11·0	6·2	+4·8	51·3	48·9	+2·4	0·1	0·5	−0·4	66·4	58·0	+8·4
United Provinces of Agra and Oudh.	18. United Provinces, East.	4·1	2·6	+1·5	4·2	1·8	+2·4	38·8	42·7	−3·9	0	0·7	−0·7	47·1	47·8	−0·7
	19. South Oudh	4·5	2·4	+2·1	3·4	2·0	+1·4	29·9	38·6	−8·7	0·2	0·8	−0·6	38·0	43·8	−5·8
	20. North do.	5·2	2·8	+2·4	5·4	2·9	+2·5	37·6	39·9	−2·3	0·5	0·8	−0·3	48·7	46·4	+2·3
	21. United Provinces Central.	3·4	2·2	+1·2	2·2	1·8	+0·4	21·0	36·8	−15·8	0	0·9	−0·9	26·6	41·7	−15·1
	22. United Provinces, West.	5·8	2·5	+3·3	2·4	2·6	−0·2	14·0	27·6	−13·6	0·2	0·9	−0·7	22·4	33·6	−11·2
	23. United Provinces, East Submontane.	4·7	2·5	+2·2	6·4	3·1	+3·3	44·7	43·0	+1·7	0·3	0·6	−0·3	56·1	49·2	+6·9
	24. United Provinces, West Submontane.	9·5	4·8	+4·7	4·9	4·1	+0·8	48·3	39·0	−10·7	1·6	1·4	+0·2	44·3	49·3	−5·0
	25. United Hills Provinces	13·9	8·0	+5·9	13·3	9·4	+3·9	45·2	55·6	−10·4	2·1	2·0	+0·1	74·5	75·0	−0·5
Punjab	26. South-East Punjab	5·6	3·0	+2·6	2·4	2·8	−0·4	10·4	22·2	−11·8	0·4	1·0	−0·6	18·8	29·0	−10·2
	27. South Punjab	7·2	3·2	+4·0	1·7	2·5	−0·8	10·1	16·3	−6·2	0·9	0·9	0	19·9	22·9	−3·0
	28. Central Punjab	8·3	4·6	+3·7	3·6	4·3	−0·9	11·1	15·5	−4·4	1·7	1·1	+0·6	24·7	25·7	−1·0
	29. Punjab Submontane	10·7	5·9	+4·8	5·0	5·5	−0·5	18·8	24·0	−5·2	2·6	1·5	+1·1	37·1	36·9	+0·2
	30. Do. Hills	17·9	9·7	+8·2	18·4	11·7	+6·7	36·7	43·1	−6·4	3·4	2·6	+0·8	76·4	67·1	+9·3
	31. West Punjab	5·6	2·6	+3·0	2·4	3·1	−0·7	6·6	8·6	−2·0	1·5	0·7	+0·8	16·1	15·0	+1·1

TABLE XXXI.—*Averages over the 57 meteorological divisions of the actual and normal number of rainy days for the four seasons of the year 1905 and for the whole year.*—concluded.

Province.	Division.	January and February.			March to May.			June to October.			November and December.			Whole Year.		
		Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.
North-West Frontier Province.	32. North-West Frontier Province.	8·2	5·5	+2·7	10·9	8·8	+2·1	10·8	13·8	−3·0	3·3	1·8	+1·5	33·2	29·9	+3·3
Bombay and Malabar Coast Districts (Madras).	33. Malabar	0·6	0·3	+0·3	12·6	13·7	−1·7	96·3	97·8	−1·5	3·2	6·2	−3·0	112·1	118·0	−6·0
	33-A. Travancore	2·0	...	...	24·3	...	...	68·7	...	...	6·7	...	...	101·7	...	...
	34. Madras, South Central	0·6	0·7	−0·1	11·2	9·3	+1·9	26·5	28·6	−2·1	5·3	8·1	−2·8	43·6	46·7	−3·1
	35. Coorg	1·4	...	...	14·7	...	...	87·8	...	...	3·4	...	...	107·3	...	...
	36. Mysore	0·7	0·2	+0·5	10·1	8·8	+1·3	36·1	39·6	−3·5	2·4	4·9	−2·5	49·3	53·5	−4·2
	37. Konkan	?	0·3	−0·3	1·6	2·7	−1·1	74·9	92·0	−17·1	1·4	1·6	−0·2	77·9	96·6	−18·7
	38. Bombay Deccan	0·1	0·4	−0·3	5·0	5·9	−0·9	31·4	45·2	−13·8	1·0	2·2	−1·2	37·5	53·7	−16·2
	39. Hyderabad, North	0·9	0·5	+0·4	3·1	3·6	−0·5	33·1	46·0	−12·9	0	2·2	−2·2	37·1	52·3	−15·2
	40. Khandesh	0·2	0·5	−0·3	0·6	1·6	−1·0	27·9	42·1	−14·2	0·9	1·2	−0·3	29·6	45·4	−15·8
Central Provinces and Berar.	41. Berar	1·3	1·2	+0·1	1·1	2·2	−1·1	32·8	41·2	−8·4	0	1·3	−1·3	35·2	45·9	−10·7
	42. Central Provinces, West.	1·8	1·4	+0·4	2·0	2·2	−0·2	40·0	48·6	−8·6	0	1·3	−1·3	43·8	53	−9·7
	43. Central Provinces, Central.	2·1	1·9	+0·2	4·5	2·8	+1·7	40·7	53·1	−12·4	0·1	1·2	−1·1	47·4	59·0	−11·6
	44. Central Provinces, East	5·9	1·8	+4·1	6·9	4·3	+2·6	49·5	53·6	−4·1	0	1·2	−1·2	62·3	60·9	+1·4
Bombay (North)	45. Guzarat	0·1	0·3	−0·2	0·1	0·5	−0·4	25·2	44·2	−19·0	0·5	0·6	−0·1	25·9	45·6	−19·7
	46. Kathiwar and Kutch	0·2	0·3	−0·1	0·2	0·6	−0·4	14·5	29·4	−14·9	0	0·6	−0·6	14·9	30·9	−16·0
	47. Sind	3·6	1·5	+2·1	0·5	1·0	−0·5	1·9	6·2	−4·3	0·4	0·5	−0·1	6·4	9·2	−2·8
	48. Baluchistan Hills	12·3	6·6	+5·7	5·6	5·1	+0·5	1·3	3·9	−2·6	6·1	3·5	+2·6	25·3	19·1	+6·2
Rajputana and Central India.	49. Central India, East	1·4	1·7	−0·3	1·5	1·3	+0·2	28·7	42·1	−13·4	0·1	1·4	−1·3	31·7	46·5	−14·8
	50. Rajputana East, Central India, West.	2·5	1·6	+0·9	1·0	1·9	−0·9	13·3	28·3	−15·0	0·1	1·3	−1·2	16·9	33·1	−16·2
	51. West Rajputana	1·3	0·8	+0·5	0·3	1·1	−0·8	5·2	13·5	−8·3	0·1	0·7	−0·6	6·9	16·1	−9·2
Madras	52. East Coast, North	1·7	0·6	+1·1	11·3	6·1	+5·2	38·7	45·5	−6·8	0·4	3·6	−3·2	52·1	55·8	−3·7
	53. Hyderabad, South	0·8	6	+0·2	5·5	4·3	+1·2	33·3	42·3	−9·0	0	2·5	−2·5	39·6	49·7	−10·1
	54. Madras, Central	0·1	0	+0·1	5·1	4·7	+0·4	28·4	30·6	−2·2	1·3	4·1	−2·8	34·9	39·4	−4·5
	55. East Coast, Central	1·1	0·8	+0·3	2·8	2·5	+0·3	27·4	27·5	−0·1	7·2	9·8	−2·6	38·5	40·6	−2·1
	56. East Coast, South	1·7	1·4	+0·3	7·1	4·6	+2·5	20·8	31·2	−0·4	12·1	14·3	−2·2	51·7	51·5	+0·2
	57. Madras, South	1·4	2·3	−0·9	11·4	7·6	+3·8	19·3	18·7	+0·6	11·9	12·5	−0·6	44·0	41·1	+2·9

I.—The cold weather period.

(*a*) This period was exceptionally stormy and the cold weather precipitation was more or less above the normal throughout northern India excepting Assam, Gujarat and Central India. The excess was greatest, both absolutely and relatively to the normal, in Chota Nagpur which received three times its normal quantity.

Area.	Rainfall of period, January and February.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Assam	1·23	2·25	−1·02	−45
Bengal	1·98	1·27	+0·71	+56
Bihar	1·69	1·27	+0·42	+33
Chota Nagpur	3·88	1·30	+2·58	+198
United Provinces of Agra and Oudh	2·02	1·38	+0·64	+46
Punjab	3·42	2·08	+1·34	+64
Sind	0·98	0·53	+0·45	+85
Rajputana	0·52	0·47	+0·05	+11
Gujarat	0·05	0·15	−0·10	−67
Central India	0·63	0·79	−0·16	−20

(*b*) The rainfall of the period was very irregularly distributed in the Peninsula; it was practically normal in Hyderabad, in large excess in the Central Provinces, Orissa, Mysore and Ganjam, and in defect in the remainder of the area; the defect relative y to the normal was most pronounced in the Konkan and the Bombay Deccan which obtained only 6 and 29 per cent. of their respective normal amounts.

Area.	Rainfall of period, January and February.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Orissa	1·84	1·00	+0·84	+84
Central Provinces	1·54	0·88	+0·66	+75
Berar	0·45	0·52	−0·07	−13
Konkan	0·01	0·18	−0·17	−94
Bombay Deccan	0·06	0·21	−0·15	−71
Mysore	0·38	0·11	+0·27	+245
Hyderabad	0·27	0·25	+0·02	+8
Ganjam	0·76	0·49	+0·27	+55
Malabar	0·32	0·38	−0·06	−16
Remainder of Madras	0·46	0·70	−0·24	−34

(*c*) The influence of the cold weather storms did not extend fully into Burma where accordingly the total precipitation of the period was short of the normal.

Area.	Rainfall of period, January and February.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	0·26	0·28	−0·02	−7

(*d*) The precipitation of the period was very irregularly distributed in regions beyond upper India being less than usual in Kashmir and the greater part of Persia, and above normal in Baluchistan and Afghanistan: this would suggest that the actions giving rise to the unusually disturbed weather in upper India and the mountain zone bordering it to the west were not transmitted through Persia.

The excessive precipitation in upper India was, it may be noted, associated with less rain than usual in the equatorial region as represented by Seychelles and Zanzibar.

Station.	Rainfall of period, January and February.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Seychelles	23·16	30·25	−7·09	−23
Zanzibar	2·44	5·74	−3·30	−57
Aden	1·77	0·61	+1·16	+190
Perim	0·45	0·60	−0·15	−25
Baghdad	0·74	3·55	−2·81	−79
Teheran	2·35	2·11	+0·24	+11
Ispahan	0·93	0·43	+0·50	+116
Bushire	1·41	5·47	−4·06	−74
Meshed	1·20	1·44	−0·24	−17
Chaman	5·40	3·05	+2·35	+77
Quetta	8·52	4·24	+4·28	+101
Kabul	2·63	2·22	+0·41	+18
Gilgit	0·05	0·37	−0·32	−86
Srinagar	5·41	6·29	−0·88	−14
Kashgar	0·49	0·39	+0·10	+26
Leh	0·76	0·66	+0·10	+15

II.—The hot weather period.

As already pointed out the meteorological conditions of March and the greater part of April were similar in some important respects to those of the cold weather proper and the commencement of the hot weather was delayed until about the beginning of May. March was a remarkably wet month over a large tract of country stretching eastwards from east Persia to upper Burma, and in this area the excess of rainfall was most marked in Eastern Bengal which recorded a total fall of 8·08″, as compared with a normal of 2·36″. In the Peninsula on the other hand the distribution was characterized by striking irregularities, though on the whole there was an excess of rain in the eastern and a defect in the western half. Conditions were less disturbed in April during which month the precipitation was below normal over the whole country with the exception of Bengal, the greater part of the Central Provinces, Hyderabad and Madras; in these areas the usual thunder showers were more frequent than usual. May, like April, was on the whole a month of deficient rainfall over a large part of the country, almost the only exceptions being Bengal, Madras, Arakan and Upper Burma. The shortage was greatest in Assam where the ordinary hot weather storms were neither so frequent nor so severe as usual.

(*a*) The total rainfall of the period March to May was in excess in the Bengal presidency, the United Provinces and the whole of the Peninsula excluding the West coast, Berar and the Bombay Deccan. The excess was most marked in Ganjam, Bihar, Orissa and Chota Nagpur, where it ranged between 50 and 106 per cent.

Area.	Rainfall of period, March to May.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	″	″	″	
Bengal	18·63	12·61	+6·02	+ 48
Orissa	9·24	6·03	+3·21	+ 53
Bihar	5·25	3·13	+2·12	+ 68
Chota Nagpur	5·77	3·81	+1·96	+ 51
United Provinces of Agra and Oudh.	1·47	1·22	+0·25	+ 20
Central India	0·59	0·55	+0·04	+ 7
Central Provinces	1·83	1·41	+0·42	+ 30
Mysore	6·50	5·19	+1·31	+ 25
Hyderabad	2·14	1·83	+0·31	+ 17
Ganjam	7·37	3·58	+3·79	+106
Remainder of Madras	4·55	3·73	+0·82	+ 22

(*b*) Over the rest of the country including Burma, Assam, practically the whole of north-west India, Berar, the Bombay Deccan and the west coast the rainfall of the period was short of the normal; the percentage deficiency was greatest in Gujarat.

Area.	Rainfall of period March to May.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal
	″	″	″	
Burma	12·96	14·17	−1·21	− 9
Assam	26·58	31·01	−4·43	−14
Punjab	1·93	2·09	−0·14	− 7
Sind	0·18	0·39	−0·21	−54
Rajputana	0·19	0·59	−0·40	−68
Gujarat	0·05	0·27	−0·22	−81
Berar	0·42	0·98	−0·56	−57
Konkan	0·74	1·98	−1·24	−63
Bombay Deccan	1·37	1·96	−0·59	−30
Malabar	8·74	10·89	−2·15	−20

(*c*). The precipitation of the period was in marked excess at Kashgar, Gilgit, Leh, Perim and Zanzibar.

The excess at the first four stations was distributed over practically the whole of the period, but at Zanzibar it occurred solely in April when a total of 30·52 inches was recorded, as compared with 13·24, the normal for the month.

Station.	Rainfall of period March to May.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	″	″	″	
Seychelles	17·24	23·56	−6·32	− 27
Zanzibar	45·66	28·92	+16·74	+ 58
Aden	0·21	1·44	−1·23	− 85
Perim	2·13	0·66	+1·47	+223
Baghdad	2·18	2·80	−0·62	− 22
Ispahan	1·97	1·48	+0·49	+ 33
Bushire	1·76	1·53	+0·23	+ 15
Meshed	3·27	4·95	−1·68	− 34
Chaman	1·76	1·79	−0·03	− 2
Quetta	2·86	3·31	−0·45	− 14
Kabul	5·40	7·68	−2·28	− 30
Gilgit	4·53	2·31	+2·22	+ 96
Kashgar	5·80	1·20	+4·60	+383
Leh	1·35	0·60	+0·75	+125

III.—The south-west monsoon period.

The rainfall was even lighter in this than during the corresponding period of the previous year. The Arabian Sea current arrived on the west coast on June 10th, a week later than usual, and was exceedingly unsteady and of much less than its normal intensity until the end of the third week in August. The feebleness was on the whole most marked during the period 6th to 21st August when a more or less complete break in the rains obtained over practically the whole of north west and central India and the Peninsula. The current intensified considerably during the last nine days of August and was moderately strong until September 13th or 14th, when it retreated finally from upper India. The Bay current was established in Bengal nearly a fortnight after its normal date: it was decidedly more vigorous than the Arabian Sea current and gave satisfactory rain over the greater part of its field.

(*a*) As happened in 1904, the precipitation in the field of the Bay current contrasted very favourably with that in the region of the Arabian Sea current, being 5 per cent. in excess in the former and 26 per cent. in defect in the latter area:—

Field of	Rainfall of period, June to September.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Arabian Sea current	27·81	37·44	−9·63	−26
Bay of Bengal ,,	52·43	49·81	+2·62	+ 5

(*b*) The rainfall was somewhat irregularly distributed in the area usually served by the Bay current, there being an excess in Burma, Assam, Bengal and Bihar and a defect in the United Provinces, Orissa and Ganjam. The departures from normal were generally small except in the United Provinces and Orissa where the deficiency averaged 26 and 23 per cent. respectively:—

Area.	Rainfall of period June to September.				Rainfall of period June to October.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"		"	"	"	
Burma	101·73	90·91	+10·82	+12	108·62	97·71	+10·91	+11
Assam	77·52	70·07	+ 7·45	+11	88·60	75·64	+12·96	+17
Bengal	66·03	57·56	+ 8·47	+15	71·52	62·23	+ 9·29	+15
Orissa	33·06	43·17	−10·11	−23	35·98	48·85	−12·87	−26
Bihar	50·69	41·85	+ 8·84	+21	51·11	44·45	+ 6·66	+15
Chota Nagpur	42·64	45·69	− 3·05	− 7	43·47	48·59	− 5·03	−10
United Provinces of Agra and Oudh.	25·73	34·54	− 8·81	−26	25·85	36·10	−10·25	−28
Ganjam	26·31	27·09	− 0·78	− 3	28·81	34·11	− 5·30	−16

(*c*) In the region of the Arabian Sea current the precipitation was everywhere below the normal, the defect being least in the Central Provinces, Berar and Madras and greatest in Sind and Rajputana which received less than half of their normal quantity:—

Area.	Rainfall of period, June to September.				Rainfall of period, June to October.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"		"	"	"	
Punjab	9·75	14·06	− 4·31	−31	9·82	14·29	− 4·47	−31
Sind	1·48	5·49	− 4·01	−73	1·48	5·51	− 4·03	−73
Rajputana	6·53	16·83	−10·30	−61	6·53	16·97	−10·44	−62
Gujarat	25·43	32·92	− 7·49	−23	25·48	33·73	− 8·25	−24
Central India	23·46	35·76	−12·30	−34	23·46	36·74	−13·28	−36
Central Provinces	40·43	44·29	− 3·86	− 9	40·69	46·14	− 5·45	−12
Berar	25·33	27·88	− 2·55	− 9	25·60	29·73	− 4·13	−14
Konkan	63·87	105·56	−41·69	−39	67·53	110·05	−42·52	−39
Bombay Deccan	17·81	26·97	− 9·16	− 4	19·80	30·14	−10·34	−34
Mysore	24·62	20·65	− 6·03	−29	20·13	26·15	− 6·02	−23
Hyderabad	20·98	26·59	− 5·61	−21	23·02	29·38	− 6·36	−22
Malabar	93·56	100·61	− 7·05	− 7	107·75	109·95	− 2·20	− 2
Remainder of Madras	10·29	11·72	− 1·43	−12	19·46	19·01	+ 0·45	+ 2

(*d*) The deficiency was persistent throughout the period in the United Provinces, Sind, Rajputana, Central India and the Konkan, though on the whole more marked in June and August than in the other two months:—

Area.	Percentage departure from normal rainfall.			
	June.	July.	August.	September.
United Provinces of Agra and Oudh.	− 86	−16	− 15	−14
Sind	−160	−43	−100	−79
Rajputana	− 84	−56	− 89	− 6
Central India	− 86	− 4	− 48	− 9
Konkan	− 57	−23	− 46	−43

(*e*) The rains in upper India ended on the 14th September which is about the usual date.

(*f*) Baluchistan, Afghanistan and Kashgar obtained even less rain than usual.

The precipitation was on the other hand well above the normal in Ladak, Gilgit, south Arabia and the Indian Ocean as represented by Seychelles, Zanzibar and Mauritius. The excess at Seychelles occurred mainly in August

and September while that at Zanzibar lasted throughout the period :—

Station.	Rainfall of period, June to September.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Mauritius	8·81	7·93	+0·88	+11
Seychelles	20·58	16·39	+4·19	+26
Zanzibar	11·56	7·77	+3·79	+49
Aden	1·24	0·31	+0·93	+300
Perim	0·02	0·47	−0·45	−96
Baghdad	0·02	0·09	−0·07	−78
Ispahan	0·09	0·06	+0·03	+50
Bushire	0	0	0	0
Meshed	0·33	0·27	+0·06	+22
Chaman	0	0·23	−0·23	−100
Quetta	0	1·92	−1·92	−100
Kabul	0·14	0·62	−0·48	−77
Gilgit	2·79	1·78	+1·01	+57
Kashgar	0·40	2·13	−1·73	−81
Leh	1·59	1·31	+0·28	+21

IV.—The retreating south-west monsoon period.

Weather was abnormally dry during this period over the greater part of the country. The retreating monsoon current was weaker than usual and was determined chiefly to Burma, Assam and Bengal. Two disturbances originated over the Bay, one in October and the other in December, but both failed to concentrate into regular storms. They however occasioned moderately heavy rain in Burma, Bengal and Assam. The dispersion of the second disturbance was followed on the 10th by the final withdrawal of the humid south-west wind from the Bay about a week earlier than usual. Conditions were very unsettled in the Punjab and the mountain zone to the north and west during the second half of December. Two storms of the cold weather affected that region and occasioned fairly heavy rain and snow.

(*a*) The rainfall due to the retreating monsoon was on the whole favourable in Burma, Assam and Bengal; the excess was large in Assam which obtained double the normal quantity :—

Area.	Rainfall of period, October to December.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	8·45	8·54	−0·09	−1
Assam	12·76	6·85	+5·91	+86
Bengal	5·88	5·42	+0·46	+8

(*b*) The total precipitation of the period was on the other hand deficient in the Peninsula with the exception of Malabar; also in Bihar, the United Provinces, Chota Nagpur, Gujarat and Central India, which usually obtain moderate rain during the first half of the period.

The deficiency was greatest in the United Provinces, Rajputana, Gujarat, Central India, the Central Provinces and Berar which received less than eleven per cent. of their normal supply.

Area.	Rainfall of period, October to December.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Orissa	2·97	7·31	−4·34	−59
Bihar	0·44	2·89	−2·45	−85
Chota Nagpur	0·94	3·36	−2·42	−72
United Provinces of Agra and Oudh.	0·21	2·02	−1·81	−90
Sind	0·09	0·22	−0·13	−59
Rajputana	0·03	0·61	−0·58	−95
Gujarat	0·07	1·15	−1·08	−94
Central India	0·04	1·63	−1·59	−98
Central Provinces	0·27	2·59	−2·32	−90
Berar	0·28	2·72	−2·44	−90
Konkan	4·36	5·43	−1·07	−20
Bombay Deccan	2·31	4·19	−1·88	−45
Mysore	6·47	8·65	−2·18	−25
Hyderabad	2·04	4·11	−2·07	−50
Ganjam	2·76	10·40	−7·64	−73
Malabar	16·58	13·55	+3·03	+22
Remainder of Madras	13·32	15·82	−2·50	−16

(*c*) The precipitation exceeded the normal in the Punjab owing to the early commencement of the cold weather rains.

(*d*) The precipitation of the period was very irregularly distributed in regions to the north and west of upper India, being in excess in Afghanistan and Baluchistan and below the normal in Persia, eastern Turkistan and Ladak. The almost entire absence of rain in Persia would appear to suggest that the actions giving rise to the unusually disturbed weather of December in the Punjab and the mountain zone to the west were local rather than general. The precipitation was irregularly distributed in the equatorial region, being normal in amount at the

Seychelles and 16 per cent. in defect at Zanzibar.

Station.	Rainfall of period, October to December.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Seychelles	31·57	31·54	+0·03	0
Zanzibar	14·05	16·68	−2·63	− 16
Aden	0·03	0·61	−0·58	− 95
Perim	0·23	0·19	+0·04	+ 21
Baghdad	0·28	2·60	−2·32	− 89
Ispahan	0·50	1·67	−1·17	− 70
Bushire	1·45	5·11	−3·66	− 72
Meshed	1·16	1·63	−0·47	− 29
Chaman	5·02	1·22	+3·80	+311
Quetta	3·67	1·21	+2·46	+203
Kabul	2·79	1·33	+1·46	+110
Gilgit	0·28	0·34	−0·06	− 18
Kashgar	0	0·27	−0·27	−100
Leh	0·29	0·43	−0·14	− 33

The year.—According to Table XXX, which is based on the whole of the available rainfall data of the country including Burma, the precipitation of the year in the plains was 2·91" or 6 per cent. below the normal.

The deficiency was shown solely in the wet season June to December for which period it averaged 8 per cent. in amount. In the dry season January to May there was on the other hand an excess of 13 per cent.

The statement below shows the seasonal distribution of rainfall in the plains of India :—

Period.	Rainfall of India, including Burma.				Rainfall of India, excluding Burma.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"		"	"	"	
Cold weather	1·33	0·97	+0·36	+37	1·44	1·04	+0·40	+38
Hot weather	5·89	5·41	+0·48	+ 9	5·12	4·46	+0·66	+15
South-west monsoon	37·38	40·09	−2·71	− 7	30·38	34·57	−4·19	−12
Retreating south-west monsoon.	4·13	5·17	−1·04	−20	3·66	4·80	−1·14	−24
Whole year	48·73	51·64	−2·91	− 6	40·60	44·87	−4·27	−10

The figures in the above table are, it may be noted, the arithmetical means (irrespective of the extent of area represented by each station), of the rainfall data of about 2,300 rain-gauge stations. The local distribution was characterized by much less irregularity than is frequently the case. Those parts of the country which as a rule receive their supply of rainfall solely from the Bay current had a total fall more or less above the normal; while those which depend mainly on the Arabian Sea current or upon both branches of the monsoon had less than the usual amount. The region of greatest deficiency was defined by Sind and Rajputana where the total rainfall of the year was less than 40 per cent. of the normal amount :—

Province or Division.	Annual rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	123·40	113·91	+ 9·49	+ 8
Assam	118·08	110·17	+ 7·91	+ 7
Bengal	92·51	76·86	+15·65	+20
Orissa	47·11	57·51	−10·40	−18
Bihar	58·07	49·13	+ 8·94	+18
Chota Nagpur	53·23	54·16	− 0·93	−2
United Provinces of Agra and Oudh.	29·44	39·15	− 9·71	−25
Punjab and North-West Frontier Province.	16·12	19·09	− 2·97	−16
Sind	2·73	6·63	− 3·90	−59
Rajputana	7·27	18·49	−11·22	−61
Gujarat	25·59	34·48	− 8·89	−26
Central India	24·72	38·73	−14·01	−36
Central Provinces	44·07	49·17	− 5·10	−10
Berar	26·48	32·10	− 5·62	−18
Konkan	68·98	113·15	−44·17	−39
Bombay Deccan	21·54	33·32	−11·78	−35
Mysore	27·97	34·60	− 6·63	−19
Hyderabad	25·42	32·77	− 7·35	−22
Ganjam	37·20	41·56	− 4·36	−10
Malabar	119·20	125·43	− 6·23	− 5
Remainder of Madras	28·62	31·98	− 3·36	−11

The following gives for the past 15 years the departures of the mean annual rainfall of the country as derived from the data of about 2,400 rain-gauge stations.

Year.	Annual Rainfall of India.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
1891	51·52	55·61	— 4·09	— 7
1892	57·09	53·59	+ 3·50	+ 7
1893	61·66	53·21	+ 8·45	+ 16
1894	61·15	53·53	+ 7·62	+ 14
1895	49·22	53·11	— 3·89	— 7
1896	47·81	52·15	— 4·34	— 8
1897	52·76	51·31	+ 1·45	+ 3
1898	52·32	51·38	+ 0·94	+ 2
1899	45·01	51·78	— 6·77	—13
1900	51·53	52·00	— 0·47	— 1
1901	48·24	51·89	— 3·75	— 7
1902	50·55	51·70	— 1·14	— 2
1903	52·97	51·59	+ 1·38	+ 3
1904	49·40	51·56	— 2·16	— 4
1905	48·72	51·64	— 2·92	— 6

Similar data for India, excluding Burma, are given below:—

Year.	Annual Rainfall of India, excluding Burma.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
1891	43·91	48·57	— 4·66	—10
1892	49·99	46·03	+ 3·96	+ 9
1893	54·57	45·78	+ 8·79	+19
1894	53·80	45·97	+ 7·83	+17
1895	42·86	45·67	— 2·81	— 6
1896	39·39	45·02	— 5·63	—13
1897	46·07	44·94	+ 1·13	+ 3
1898	45·96	45·02	+ 0·94	+ 2
1899	37·35	45·08	— 7·73	—17
1900	44·85	45·32	— 0·47	— 1
1901	41·05	45·32	— 4·27	— 9
1902	44·02	44·89	— 0·87	— 2
1903	46·81	44·79	+ 2·02	+ 5
1904	40·81	44·77	— 3·96	— 9
1905	40·60	44·87	— 4·27	—10

These data differ slightly from those given in the following statement which is based on the returns of about 450 stations selected by the late Mr. Blanford as representative of the rainfall conditions in India. In the calculation of these averages allowance is made for the area represented by each station :—

Year.	Number of Divisions.			Rainfall.			
	Fall excessive.	Fall normal.	Fall deficient.	Actual.	Normal.	Departure from normal.	Percentage departure.
				"	"	"	
1875	16		8	43·47	41·09	+ 2·38	+ 6
1876	6		18	36·60	41·09	—4·49	—11
1877	10		14	36·81	41·09	—4·28	—10
1878	17	1	6	47·43	41·09	+ 6·34	+15
1879	16	2	6	42·78	41·09	+ 1·69	+ 4
1880	13	1	10	39·53	41·09	—1·56	— 4
1881	15		9	41·19	41·09	+ 0·10	0
1882	17	1	6	43·73	41·09	+ 2·64	+ 6
1883	11	1	12	40·97	41·09	—0·12	0
1884	12		10	42·82	41·09	+ 1·73	+ 4
1885	15		7	42·14	41·09	+ 1·05	+ 3
1886	14		8	44·11	41·09	+ 3·02	+ 7
1887	11		11	43·51	41·09	+ 2·42	+ 6
1888	10		12	39·55	41·09	—1·54	— 4
1889	15		8	43·50	41·09	+ 2·41	+ 6
1890	14	1	8	41·77	41·09	+ 0·68	+ 2
1891	6		17	37·55	41·09	— 3·54	— 9
1892	15		8	46·18	41·09	+ 5·09	+12
1893	22		1	50·16	41·09	+ 9·07	+22
1894	17		6	47·56	41·09	+ 6·47	+16
1895	5		17	38·90	41·09	—2·19	— 7
1896	7	2	14	36·26	41·09	—4·83	—12
1897	10	2	11	40·94	41·09	—0·15	0
1898	10	3	10	41·52	41·09	+ 0·43	+ 1
1899	6		17	29·95	41·09	—11·14	—27
1900	10		13	40·52	41·09	—0·57	— 1
1901	5		18	36·96	41·09	—4·13	—10
1902	8		15	39·04	41·09	—2·05	— 5
1903	9	4	10	43·06	41·09	+ 1·97	+ 5
1904	7	2	14	36·32	41·09	—4·77	—12
1905	8		15	35·51	41·09	—5·58	—14

HEM RAJ.

Concluding Summary.

In the preceding sections an account has been given of the various climetic elemants from the standpoint of India and the immediately surrounding areas. An attempt will now be made to trace some of the antecedent features in the monsoon region generally by which the Indian weather appears to have been influenced:

The cold weather period, 1905.

Since the winter precipitation in northern India is believed to originate in the upper current of air flowing northwards from the equator it is not unnatural to expect an increase in that precipitation when

(*a*) increased ascensional movement in the equatorial regions shows itself in increased rainfall at Zanzibar and Seychelles in November.

(*b*) when the horizontal gradients in the upper atmosphere are unusually favourable. As regards (*a*) the following table contains the data available since 1877: in it the years given refer to the data for October and November. The details of rain and snow apply to the subsequent period December to March. Very large departures in snowfall are indicated by doubled signs.

Year.	Zanzibar rainfall departure.		Seychelles rainfall departure.		Departure of Horizontal gradient, Wellington minus mean of Ramikhet and Murree.	Subsequent rainfall departure in	Cold weather snow in
	October.	November.	October.	November.	November.	Northern India.	Western Himalayas.
	"	"	"	"	"	"	
1877	+2·14	+5·25	..	...	...	+1·07	+
1878	—1·27	—2·91	...	...	...	—0·76	—
1879	...	...	...	...	...	—0·73	—
1880	...	—4·02	...	...	+·014	—0·24	—
1881	—0·67	—2·14	...	...	+·018	—0·51	—
1882	—0·41	—0·75	...	...	—·023	+0·14	—
1883	—2·74	—4·70	...	...	+·017	—0·82	+
1884	+0·14	+2·15	...	...	—·002	—0·19	+
1885	...	...	...	...	—·022	+0·98	+
1886	...	...	...	...	0	—0·60	—
1887	...	...	...	...	—·003	+0·52	—
1888	...	...	...	...	+·018	+0·46	0
1889	+4·25	—4·99	...	...	+·018	—1·07	—
1890	...	...	...	...	+·018	+1·25	+ +
1891	+0·60	—1·75	...	...	—·002	—0·85	— —
1892	—2·93	—0·59	...	...	+·039	+1·53	+ +
1893	—0·02	+3·68	...	...	—·029	+0·77	+
1894	+0·37	+9·32	—0·84	+1·80	0	+1·08	0
1895	—2·59	+0·27	+1·27	—2·87	+·005	—0·73	—
1896	+3·02	+6·00	—0·10	+4·39	—·027	—0·26	+
1897	+0·97	—4·52	—0·61	—0·71	—·020	+1·42	—
1898	—2·48	—0·49	—0·14	—8·55	—·020	—0·62	—
1899	—2·98	—2·41	+3·27	—5·03	+·001	—0·43	—
1900	+1·25	—0·43	+2·27	+14·04	—·003	+1·21	+
1901	—1·63	—1·35	+0·12	—2·49	—·031	—1·11	—
1902	+2·39	—0·58	+3·79	—1·76	—·018	—0·63	+
1903	—0·76	—0·29	—2·92	—0·08	+·002	+0·73	+
1904	+1·53	+7·48	—1·99	+11·86	+·029	+0·87	+ +
Normal amount	3·79	7·86	4·81	12·17	·158	1·47	...

It will be seen that the rainfall either at Zanzibar or Seychelles or both was over 2·2″ in excess in November in 1877, 1893, 1894, 1896, 1900 and 1904; in each of these six years, the subsequent snowfall was normal or in excess, and in all except 1896, when the rainfall departure was only—0·26, the winter rains were in excess. For cases of diminished rainfall the corresponding relation exists: years of larger deficiency than 1·8″ in the sub-equatorial rainfall of November have been 1878, 1880, 1881, 1883, 1889, 1895, 1897, 1898, 1899 and 1901: of these ten years the November was in eight cases followed by less snow and less rain than the average, and in the remaining years 1883 and 1897 the amounts of either the subsequent snow or subsequent rain were above normal. Between the sub-equatorial rainfall in October however and the subsequent precipitation in northern India the connection is scarcely appreciable. When the methods of statistics are applied in their simplest form the correlation coefficient* between the winter rainfall and the mean of the departures of Zanzibar and Seychelles rainfall in November is +·5, with a probable error of about ·1. The precipitation of the season at the beginning of 1905 was thus fully in accord with the relationship in question.

It must however be admitted that there are reasons for suspecting that the apparent closeness of this relationship is largely due to accidental circumstances, and that further experience will diminish considerably the correlation coefficient. The connections of the Zanzibar rainfall of November both with the subsequent Indian cold weather precipitation and with the sunspot number of the year are widely different from those of the preceding and following months, and this is in itself so improbable that it seems advisable to regard the November connections as to an uncertain extent doubtful.

* The correlation coefficient of two quantities expresses the fraction of the variations of either which is determined by those of the other.

For the horizontal gradient in the upper atmosphere, it is convenient to take the difference between the pressure at Wellington whose elevation is 6,200 feet and the mean of the pressures at Ranikhet and Murree, the elevations of these stations being 6,069 and 6,333 feet and that of their mean 6,201 feet; the departure of this pressure difference from normal is contained in the sixth column of the table.

A numerical examination of the table shows a slightly favourable influence of an abnormally strong gradient but the connection is not close, the correlation coefficient being +·22. The excessive cold weather precipitation of 1904-5 may thus be regarded as determined rather by the heavy sub-equatorial rainfall of November 1904 than by the horizontal gradients in the upper air.

The character of the vertical pressure gradients of Sind and upper India during November, 1904 may be gathered from the accompanying table in which are given the departures from normal of the excess of pressure in the plains above pressure at four representative hill stations: the pressure in the plains is not that of any particular observatory, but is estimated in each case from the pressure chart as that at a point in the plains nearest to the hill station in question.

Hill station.	Murree.	Leh.	Simla.	Chakrata
	"	"	"	"
Departure of pressure difference .	+·004	—·005	+·009	+·012

It has been pointed out that large pressure differences tend to be followed by large precipitation, and the correlation coefficient with the cold weather rainfall of December to March of the mean of departures of pressure differences corresponding to the stations of Leh, Quetta and Simla works out as +·31.

It will be seen however that no clear indication was afforded of the character of the succeeding winter.

The hot weather period, 1905.

During the earlier portion of this season the conditions of the cold weather period still prevailed; precipitation and cloud were accordingly in excess and temperature below normal, especially in northern India. These conditions did not last into May.

The averages over India of the departures from normal of these three elements for the months, March, April and May were:—

	March.	April.	May.
Rainfall	+0·63	—0·09	—0·06
Cloud	+1·2	—0·4	—0·2
Mean temperature	—3·1	—3·0	+1·0

The correlation coefficients of rainfall, cloud and mean temperature with the number of sunspots of the year are:—

	March.	April.	May.
Rainfall	+·28	—·03	+·17
Cloud	+·15	—·20	—·12
Temperature	—·43	—·17	—·13

If therefore the fact be remembered that the probable error of these coefficients is ·12 it will be seen that the weather was on the whole characteristic of a year of maximum sunspots.

The south-west monsoon period, 1905.

Among the most important of the extra-Indian data are the following:—

	Departures from normal.					
	April.	May.	June.	July.	August.	September.
	"	"	"	"	"	"
Mauritius pressure .	+·034	+·026	—·007	—·022	—·003	—·048
Zanzibar rainfall . .	+17·28	+0·02	+0·32	+1·52	+0·87	+1·08
Seychelles rainfall .	—2·62	+3·67	+4·70	—1·77	+3·29	+7·37

The unfavourable influence of excessive rainfall at Zanzibar and Seychelles has been pointed out in the concluding portion of the Annual Summaries of 1903 and 1904, while a more detailed statement of the case will be found on pages 3 and 4 of the monsoon forecast of June 1906*. It will be seen that the rainfall of every month was in excess at Zanzibar from April to September and the average for the period at Seychelles was in moderate excess: the deficiency in monsoon precipitation throughout India except in Bihar, Bengal, Assam and Burma is thus in accordance with previous experience.

Attention was also drawn in paragraph 10 of the June forecast of 1906 to the manner in which moderately heavy snowfall accumulation in May is associated with heavy subequatorial rain. Examples of the former characteristic have been 1891, 1897, 1900, 1901, 1903, 1904, 1905, and 1906 and in each case rainfall at Zanzibar or Seychelles was in excess in April or May. Further 1899 and 1902 are the only cases in which heavy sub-equatorial rain was not associated with a large accumulation of snowfall. It thus appears that the evil influence of heavy snowfall which was noticed by Blandford in 1877† is not necessarily exercised in a direct manner, and this view is strongly

* Memorandum on the meteorological conditions prevailing in the Indian monsoon region before the advance of the south-west monsoon of 1906, with an estimate of the probable distribution of the monsoon rainfall in 1906, dated Simla, 9th June 1906.

† For a fuller statement of this influence see the June forecast of 1906, paragraph 6.

supported by the fact that in half the years of heavy snowfall there is a greater average deficiency in the field of the whole Bombay current in June than in north-west India, the part of it which lies nearer to the region of snowfall.

It was pointed out on page 534 of the Annual Summary of 1904 that the influence of high pressure at Mauritius was decidedly prejudicial; the correlation coefficient of pressure in May with the monsoon rainfall of June to September is —·42 and the influence of the pressure in ensuing months is of the same character. From consideration of the Mauritius pressure data of the preceding table, without taking other factors into account, it would thus be inferred that Indian rainfall in the early part of the monsoon period would be in decided defect and that an improvement would subsequently occur, the total rainfall in September being approximately normal: this is in fair accordance with the facts, the percentage departure of Indian rainfall for the successive months June to September being —32, —4, —14 and +2.

Recent examination of Indian pressure data has brought out several rather curious facts. It has already been stated that low pressure at Mauritius for sometime previous to the breaking of the Indian monsoon is a favourable sign, and it now appears that in years of abundant rainfall this low pressure extends to India during June; previous to June the influence of low pressure is only slightly favourable. It is rather surprising that this influence persists strongly throughout the first half of the next year and still more surprising that in the year previous to the monsoon rainfall in question high pressure, especially in the earlier months, is decidedly beneficial. Thus the correlation co-efficient of the total monsoon rainfall of June to September of any year is —·49 with pressure of the same year, —·36 with pressure of the succeeding year and +·51 with pressure of the preceding year. With Mauritius the corresponding numbers are:— for the same year —·35, for the following year +·02 and for the previous year +·21.

These facts recall at once the pressure oscillations over large areas to which attention was drawn by Blanford in 1880* and the views expressed by Sir John Eliot in his paper on the long and short period pressure oscillations.† (1) that pressure in India and at Mauritius exhibit oscillations lasting several years and executed in opposite directions, and (2) that monsoon rainfall is abundant in years during which Indian pressure is going down and Mauritius pressure is going up. The truer statement would appear to be that (1) in these oscillations Mauritius pressure behaves in a manner on the whole similar to that of India and that (2) monsoon rainfall is abundant after the pressure of both places has diminished.

In order to throw light on these oscillations the correlation coefficients with the individual months of successive years have been tabulated and are contained in the following table, in which, owing to the fact that reliable data for only 29 years are available, the probable error in any coefficient is about ·12.

* Report on the meteorology of 1878, pp. 53, 62; of 1881, p. 81; of 1884, pp. 67, 68.

† Meteorological Memoirs, Vol. VI, Part III, pp. 116—118.

	Coefficient of monsoon rainfall with India pressure of											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Five years previous . .	+·27	+·09	+·15	+·26	+·05	+·46	+·04	+·18	0	+·09	—·14	—·05
Four „ „ . .	+·18	+·04	+·09	—·24	+·08	—·27	0	+·28	—·28	—·10	0	—·06
Three „ „ . .	—·33	+·05	+·01	+·09	—·10	—·01	+·04	—·08	—·31	—·35	+·07	—·01
Two „ „ .	—·07	—·20	—·23	—·28	—·02	—·08	+·21	—·05	+·27	+·16	+·35	
One year „ . .	+·26	+·36	+·30	+·34	+·17	+·36	+·37	+·18	+·08	+·11	+·11	+·19
Same year	—·11	—·08	—·13	—·16	—·02	—·29	—·12	—·10	—·62	—·48	—·21	—·18
One year after . . .	—·36	—·26	—·17	—·31	—·59	—·29	—·01	—·09	—·03	—·11	+·27	+·22
Two years „ . . .	+·10	—·02	—·26	+·10	0	0	+·11	+·18	+·07	+·51	+·30	+·28

It will here be noticed that although, as might have been anticipated, the data show considerable irregularity they become satisfactorily consistent as the year in question is approached: there is further a suggestion in them of a four-yearly period of pressure but the evidence here given is entirely insufficient to establish this.

The following table gives for successive years, (*a*) the India pressure departure of the previous year; (*b*) the excess of pressure in the previous year over the mean of the pressures of the year in question and of the succeeding

year; and (*c*) the departure of Indian monsoon rainfall of the year in question.

Year.	Pressure departure of preceding year.	Excess of pressure of preceding year over mean of year and succeeding year.	Percentage departure of monsoon rainfall.
	"	"	
1876	−·007	−·019	− 7
1877	−·007	−·024	−16
1878	+·032	+·038	+14
1879	+·002	+·010	+ 3
1880	−·014	−·014	− 6
1881	−·003	+·001	− 1
1882	+·002	+·009	+ 7
1883	−·010	−·012	+ 1
1884	−·005	−·017	+ 2
1885	+·010	+·005	0
1886	+·014	+·018	+ 4
1887	−·003	−·005	+ 2
1888	−·006	−·013	− 1
1889	+·011	+·013	+ 8
1890	+·004	+·004	+ 4
1891	−·009	−·003	−10
1892	+·010	+·021	+11
1893	−·022	−·016	+ 4
1894	−·001	+·003	+ 7
1895	−·012	−·013	− 5
1896	+·003	+·006	+ 2
1897	−·001	+·010	+ 7
1898	−·005	+·002	+ 2
1899	−·018	−·025	−23
1900	+·004	−·003	+ 4
1901	+·010	+·002	−11
1902	+·005	−·001	− 2
1903	+·011	+·012	+ 1
1904	+·001	−·002	− 8
1905	−·003	+·002	−12

It will be seen that considering the years in which the pressure departure of the preceding year exceeded ·010, the sign of the departure of the monsoon rainfall was the same as that of the preceding pressure 7 times out of 8; and that the cases in which the departures of the third column exceed ·010 give the right sign for the monsoon rainfall in 11 years out of 14.

Thus the data of the second and third columns taken alone would suggest that the rainfall of 1905 had been approximately normal.

Period of the retreating south-west monsoon, 1905.—Attention was drawn in pages 536, 7 of the Annual Summary of 1904 to the prejudicial influence on the rainfall of this period in the Peninsula of (*a*) heavy rain at Zanzibar in May, (*b*) heavy rain at Zanzibar or Seychelles in September, and (*c*) of high pressure at Mauritius in September. In 1905 although Zanzibar rainfall in May was normal, that in April was the largest on record; and rainfall at both Zanzibar and Seychelles was in excess in August as well as September. Thus the conditions of subequatorial rainfall were decidedly unfavourable.

On the other hand pressure at Mauritius was in defect by ·048″, an unusually large amount and this fact taken alone would be a good sign: this deficiency in pressure diminished to ·016″ in October and ·005″ in November. It appears possible that but for the exceptionally favourable pressure conditions south of the equator in September, rainfall in October would not have been up to the average over a considerable area in the Peninsula; it is also consistent with this view that in November, as the pressure conditions had become less favourable, rainfall diminished considerably.

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TABLE I.—Abstract of Observations taken at 8 h. at 228 Stations in India, Burma, etc., in the year 1905.

Table

Abstract of observations taken at. 8 h

Number of rainfall division.	Station.	Elevation of bar cistern above sea-level in feet.	Pressure 8 h. in inches.							Temperature of Air.										
			Mean 8 h. pressure reduced to 32°.	Departure from normal.	Mean 8 h. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 h. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly means of daily maxima and minima.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	I.—Burma Coast and Bay Islands.			+ ·017							87·4	—0·4	73·6	+ 0·4	80·5	0	13·8			38·4	22·2
1	Car Nicobar	25	29·880*		29·833*	30·046	29·664	·382	·149	83·0	87·4		77·2*		82·		10·0	93·4	70·0	23·4	16·6
	Port Blair	61	29·880	+ ·020	29·872	30·106	29·622	·484	·182	80·1	87·0	—0·3	77·7	+ 0·7	82·4	+ 0·2	9·3	96·1	68·6	27·6	16·7
	Mergui	96	29·857	+ ·024	29·884	30·069	29·646	·423	·199	78·7	87·4	—0·2	73·2	+ 2·0	80·3	+ 1·0	14·2	97·9	62·3	35·6	23·1
	Tavoy	10(a)	29·938	+ ·019	29·889	30·174	29·671	·503	·285	76·6	87·9	0	71·5	+ 0·3	79·7	+ 0·1	16·4	98·2	54·5	43·7	25·5
	Moulmein	94	29·835	+ ·011	29·868	30·129	29·526	·603	·240	77·1	88·5	+ 0·4	72·9	+ 0·5	80·7	+ 0·5	15·7	99·4	60·4	29·0	24·0
2	Rangoon	57	29·866	+ ·013	29·882	30·152	29·509	·643	·237	76·9	88·6	—0·9	73·3	+ 0·5	80·9	—0·2	15·3	103·6	58·7	44·9	23·6
	Bassein	27?	29·895	+ ·021?	29·860	30·197	29·501	·696		78·6	87·9	—0·2	72·7	+ 0·6	80·3	+ 0·2	15·2	101·2	59·0	42·2	23·3
	Diamond Island	41	29·877	+ ·009	29·853	30·180	29·461	·719	·236	80·0	84·4	—1·1	76·1	+ 0·9	80·3	—0·1	8·3	92·4	68·2	24·2	14·9
5	Akyab	20	29·882	+ ·010	29·845	30·225	29·453	·772	·268	75·0	84·6	—1·6	71·7	—0·5	78·2	—1·1	12·8	94·9	51·1	43·8	23·1
3	Toungoo	183	29·733	+ ·016	29·860	30·076	29·416	·660	·241	75·7	90·3	0	69·4	—1·9	79·8	—0·7	20·9	108·3	45·1	59·2	30·7
	II.—Burma Inland.			+ ·008							88·3	- 2·1	68·9	—0·1	78·6	—1·1	19·4			59·3	31·3
3	Thayetmyo	121(b)	29·779	+ ·011	29·843	30·163	29·415	·748	·258	77·0	91·0	+0·8	63·3	—0·3	80·2	- 0·5	21·7	108·5	41·5	67·0	33·1
	Minbu	*165*	29·725	+ ·001	29·837	30·124	29·358	·766	·260	75·8	90·0	—2·2	71·1	0	80·6	—1·1	18·9	100·1	51·0	58·1	30·2
	Yamethin	657	29·230	—·001?	29·819	29·585	28·914	·671	·254	74·9	89·5	—2·7	69·7	+ 0·2	79·6	+ 1·2	19·8	105·3	50·2	55·1	30·5
	Monywa	*280*	29·641		29·860	30·022	29·312	·710	·274	75·1	89·7		69·6		79·7		19·9	106·2	46·8	59·4	31·3
	ndalay	250	29·642	+ ·012	29·834	30·026	29·305	·721	·272	76·4	91·5	—0·9?	71·6	+ 0·4	81·5	—0·3?	19·9	108·6	50·2	58·4	31·7
	Myitky..da	458	29·532		29·857	29·842	29·094	·748	·297	70·9	82·9		65·8		74·4		17·1	100·9	41·3	59·6	30·4
	Bhamo	*381*	29·524	+ ·025?	29·871	29·943	29·181	·762	·276	69·6	83·8	+ 2·3	61·9*	—0·2	74·4	+ 1·5	18·9	99·5	42·2	57·3	31·5
(a)	Maymyo	3,545	26·429*		26·371*	26·661	26·171	·490	·242*	64·6	76·1		57·5		66·8		18·6	91·9	32·6	59·3	29·1
	Lashio	*2,751*	27·089*	—·011*	27·025*	27·353	26·828	·525	·240*	65·2	81·1	- 1·5	59·6	—0·5	70·4	- 1·0	21·5	96·5	38·1	58·4	34·3
	III.—Assam.			+ ·010							81·8	—1·7	65·6	—1·1	73·7	+ 1·4	16·2			57·1	28·3
7	Silchar	104	29·800	+ ·012	29·859	30·214	29·354	·860	·289	71·6	84·3	- 1·8	67·0	—0·6	75·7	- 1·2	17·4	98·1	41·5	56·6	29·1
9	Sibsagar	333	29·569	+ ·002	29·869	30·010	29·166	·844	·304	68·5	76·6	—2·2	65·0	—0·8	72·4	+ 1·5	14·6	94·7	37·5	57·2	25·8
	Dhubri	115	29·768	+ ·016	29·842	30·216	29·338	·878	·298	70·7	81·7	—1·2	66·2	—2·0	73·9	—1·6	15·6	96·2	37·2	55·9	28·5
	Gauhati	195	29·706		29·863	30·192	29·289	·853	·307	69·9	83·4		65·3		74·4		18·1	95·0	37·5	57·5	29·3
	Tezpur	252	29·639		29·857	30 058	29·240	·818	·308	69·1	82·0		66·2		74·1		15·8	97·2	43·5	53·7	26·8
	Dibrugarh	353	29·546		29·870	29·991	29·163	·828	·302	67·9	79·8		64·2		72·0		15·7	101·7	39·2	61·8	29·8
	IV.—Bengal and Orissa.			+ ·017							85·1	—1·5	68·8	—0·8	77·1	—1·2	16·4			58·6	29·2
6	Chittagong	87	29·807	+ ·015	29·844	30·190	29·357	·833	·285	73·8	83·4	- 1·3	68·7	—0·6	76·1	- 1·1	14·8	92·5	46·6	45·9	24·7
	Noakhali	43	29·834		29·825	30·239	29·377	·862	·285	74·5	83·2		68·6		75·9		14·6	92·7	41·5	51·2	26·2
	Comilla	36	29·848		29·832	30·250	29·360	·890	·284	73·0	84·7		71·1*		78·8*		15·2*	95·3	51·2*	44·0	26·0
	Sirajganj	49	29·832		29·832	30·268	29·307	·961	·284	71·7	83·8		67·3		75·6		16·5	99·3	38·1	61·2	30·6
	Narayanganj	26	29·862	+ ·029	29·837	30·293	29·387	·906	·288	73·7	84·9	- 1·5	69·7	—0·8	77·3	+ 1·2	15·2	96·1	43·7	51·4	26·3
	Barisal	13	29·870	+ ·023	29·823	30·292	29·388	·894	·294	75·6	86·5	- 1·3	69·4	—0·6	77·1	+ 1·2	14·9	95·3	42·4	52·9	27·6
	Mymensingh	63	29·826	+ ·017	29·841	30·263	29·360	·903	·284	72·3	83·3	- 1·0	67·7	—0·7	75·5	+ 0·9	15·6	95·2	39·7	55·5	27·4
	Faridpur	46	29·836		29·833	30·272	29·345	·927	·277	73·5	84·1		68·0		76·1*		16·1	96·8	42·0	54·8	28·1
10	Jessore	33	29·834	+ ·012	29·846	30·294	29·363	·931	·275	74·4	85·0	- 1·3	69·0	—0·9	77·0	- 1·9	16·0	102·5	43·1	59·4	28·3
	Calcutta (Alipore)	21	29·847	+ ·016	29·814	30·159	29·366	·793	·277	74·6	86·0	—0·6	69·8	—0·8	77·9	+ 0·7	16·2	106·1	45·9	60·2	29·2
	Saugor Island	25	29·834	+ ·009	29·803	30·232	29·346	·886	·284	76·7	85·3	—0·2	72·7	—1·1	79·0	—0·7	12·6	98·4	45·9	52·5	24·7
	Krishnagar	47	29·817		29·813	30·230	29·314	·916	·281	73·0	86·5		68·2		77·2		17·7	103·6	39·4	64·2	31·6
	Midnapore	149	29·709		29·808	30·180	29·227	·953	·260	75·0	87·5		70·0		78·8		17·5	111·9	45·2	66·7	30·4
11	Bankura	298	29·540		29·810	30·016	29·029	·987	·271	74·3	88·2		69·4		78·8		18·8	111·6	44·6	67·0	32·4
	Ranigani	334	29·534		29·827	30·002	29·022	·980	·273	77·8	87·3		67·9		77·6		19·4	109·5	42·2	67·3	33·2

(a) 26 feet upto 10th June 1905.
(b) 130 feet upto 10th February 1905.
N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 10 months.

Note 1.—When a query is inserted against any reading or in the returns of any

Note 2.—The data from which divisional means of

I.

at 228 stations in India, Burma, etc., in the year 1905.

Wind direction. Number of winds from									Wind velocity.				Hygrometry, 8 h.				Cloud.		Rainfall.						Station.	
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean daily velocity in miles per hour, instrumental errors uncorrected.	Normal (uncorrected.)	Percentage departure from normal.	Mean velocity corrected (where possible).	Mean humidity at 8 h. of year.	Departure from normal of year.	Mean vapour tension at 8 h. of year.	Departure from normal of year.	Mean cloud amount at 8 h. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.		
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
													86	+1	·825	+·005	5·1	—0·5				139·01	141·37	+5·90		I—Burma Coast and Bay Islands.	
73	22	58	20	19	10	75	2	2	4·6			4·6	83		·879		8·7		104			64·68			4·65	Car Nicobar†	1
2	19	91	12	16	14	76	73	62	7·9	7·4	+ 7		85	0	·885	—·010	6·9	0	119			101·16	117·63	—16·47	5·41	Port Blair.	
243	12	24	21	28	14	8	5	7	2·7	1·8	+50	2·4	87	+2	·842	+·026	3·6	—1·7	147	154·20	— 7·20	141·31	168·37	—21·06	4·10	Mergui.‡	
353					7	3	2		1·4				89	+2	·803	+·002	3·7	—1·4	141	147·30	— 6·30	237·17	208·28	+27·89	8·71	Tavoy.	
184	14	28	8	30	47	37	16	8	3·1	2·8	+11	3·5	86	—1	·801	+·001	5·4	+0·5	139	140·60	— 1·60	181·92	183·92	— 2·00	10·55	Moulmein	
110	22	41	20	17	62	4	42	35	5·4	4·4	+23	4·6	87	—1	·807	+·002	5·0	0	124	122·10	+ 1·90	109·98	96·78	+ 2·20	4·60	Rangoon§	2
16	38	34	12	39	49	50	49	38	6·0	3·8	+58		83	0	·817	0	4·3	—0·8	124	128·50	— 4·50	116·03	112·60	+ 3·03	4·39	Bassein.	
15	41	70	21	18	15	70	33	32	10·5	7·1	+48	10·5	80	+1	·834	+·017	4·7	—0·7	122	120·44	+ 1·56	112·31	116·08	— 3·77	4·16	Diamond Island.	
2	122	161	8	71	28	19		14	4·3	3·7	+16	4·1	90	+2	·910	+·005	4·1	—1·0	126	119·70	+ 5·30	225·50	189·20	+36·30	12·34	Akyab.	5
118	23	6	7	107	28	16	5	54	7·8	3·0	+160	7·8	86	0	·784	+·006	5·2	0	115	113·60	+ 1·40	88·99	70·11	+ 9·88	3·76	Toungoo	3
													81	+2	·708	0	5·1	+0·4				50·16	40·05	+0·87		II.—Burma Inland.	
25	42	8	32	22	142	17	52	23	6·2	5·1	+22		79	+3	·751	+·053	3·9	—0·3	83	72·50	+10·50	42·48	36·72	+ 5·76	1·56	Thayetmyo	3
45	10	3		149	25	31	16	86	5·5			6·5	77	+2	·705	+·003	3·6	+0·4	55	50·50	+ 4·50	33·06	31·85	+ 1·20	2·60	Minbu	4
125	32	1		116	64	1		24	2·7			2·8	80	+2	·708	+·006	5·7	+3·0	66	61·20	+ 1·20	35·79	37·56	— 1·77	4·60	Yamethin. ‖	
158	5			22	80	19	26	55	2·9			3·0	80		·722		4·9		46	44·90	+ 1·10	37·53	28·39	+ 9·14	5·64	Monywa.	
155	27	12	3	10	100	52		6	3·6			3·6	76	+1	·703	—·007	6·1	+1·3	53	47·50	+ 5·50	40·60	32·36	+ 8·24	5·53	Mandalay.	
123	27	46	102	50	7	3	3	3	3·2			3·2	87		·683		6·3		118			105·70			4·93	Myitkyina.¶	
178	30	75	26	3	9	11	11	22	2·6			3·1	90	+3	·673	—·001	4·9	—0·2	108	99·80	+ 8·20	55·99	73·38	—17·39	2·85	Bhamo	
131	8	33	17	10	49	83	28	6	2·6				85		·537		4·6		102	90·70	+11·30	62·06	58·95	+ 3·11	4·59	Maymyo	4(a)
204	14	33	12	20	27	37	6	12	3·7				87	+1	·563	+·002	6·0	—0·7	100			53·70	61·28	— 7·58	2·20	Lashio.	
													90	0	·686	—·011	6·6	+0·6				94·34	94·07	+0·27		III—Assam.	
365									0·2	2·7	—93	0·2	93	0	·713	—·014	5·3	—1·1	151	136·80	+14·20	131·64	124·87	+ 6·77	5·50	Silchar	7
177	13	98	2	19	6	28	1	21	2·3	2·4	— 4	2·1	95	0	·699	—·012	8·9	+1·8	117	125·00	— 8·00	90·60	96·21	— 5·61	3·96	Sibsagar	9
103	7	57	132	26	16	13	4	2	3·8	4·7	—19	4·4	86	—1	·692	—·006	6·1	+1·2	105	92·50	+12·50	113·18	93·28	+24·90	6·11	Dhubri.	
219	36	37	13	11	26	14	7	2	1·4			1·6	88		·683		6·7		104	91·51	+12·49	60·04	63·39	— 3·35	2·20	Gauhati.	
201	1	31	72	1		8	1		3·1			3·3	89		·674		6·0		112	103·90	+ 8·10	83·10	71·66	+11·44	3·06	Tezpur.	
187	33	66	47	8	10	4	4	6	1·4			1·3	92		·654		6·4		137	131·80	+ 5·20	85·26	114·99	—29·73	3·14	Dibrugarh.	
													83	0	·727	—·018	4·5	+0·3				86·02	71·99	+14·03		IV.—Bengal and Orissa.	
20	39	117	16	120	39	8	1	5	5·2	5·1	+ 2	4·7	86	—1	·743	—·020	4·5	+0·5	119	96·42	+22·58	152·47	96·52	+55·95	10·67	Chittagong.	6
67	17	15	31	75	78	13	27	48	4·0			4·4	86		·768		4·3		126	109·36	+16·64	142·90	113·68	+29·22	4·24	Noakhali.	
117	12	15	20	89	39	11	5	7	4·2			3·5	87		·743		4·3		116	102·25	+13·75	109·56	90·24	+19·32	11·90	Comilla.	
254	2	16	26	24	22	17	6	5	1·5			1·5	92		·756		5·0		141	79·95	+22·24	109·78	61·38	+48·36	11·41	Sirajganj.	
44	21	36	42	77	37	48	13	42	4·2	4·5	+ 7	4·1	88	+2	·772	—·006	5·9	+0·6	102	94·08	+14·92	98·90	69·60	+29·30	5·83	Narayanganj.	
110	25	28	9	56	92	28	5	21	2·8			2·5	89	+1	·796	—·006	3·8	—0·8	122	97·80	+25·10	96·23	77·60	+18·63	3·60	Barisal.	
134	7	12	31	39	19	10	3	15	2·6			2·2	86	—2	·721	—·018	7·0	+2·2	122	106·22	+17·78	122·15	87·55	+34·60	10·62	Mymensingh.**	
115	35	3	22	58	93	12	6	21	3·3			2·9	86		·755		4·3		106	89·40	+16·60	100·25	68·56	+31·69	4·90	Faridpur	
231	14	6	10	24	52	8	2	3	2·0	3·2	—38	2·0	85	—1	·766	—·025	4·7	0	95	88·45	+ 6·55	91·57	64·02	+27·55	4·98	Jessore.††	10
37	30	31	24	37	69	79	13	45	4·6	4·8	— 4		84	+1	·762	—·006	5·2	+1·0	91	85·54	+ 5·46	69·76	59·55	+10·21	7·23	Calcutta (Alipore.)	
2	65	57	16	22	85	72	19	27	13·3	10·7	+24		85	—1	·808	—·025	5·5	—0·2	83	81·26	+ 1·74	76·49	72·23	+ 4·26	4·58	Saugor Island.	
103	24	13	28	51	64	22	28	31	2·4			2·7	86		·780		4·8		100	74·20	+25·80	90·28	55·12	+35·16	9·62	Krishnagar.¶	
58	93	27	4	27	105	19		21	3·1			2·8	76		·694		3·3		89	78·22	+10·78	63·50	61·26	+ 2·24	3·88	Midnapore.‡‡	
140	22	20	29	41	11	19	61	22	3·5			3·1	74		·659		3·5		75	77·37	— 2·37	49·57	56·43	— 7·86	6·04	Bankura	11
263	12	6	21	13	8	8	9	25	1·9				79		·670		3·7		76	72·95	+ 3·05	53·01	56·13	— 3·12	4·72	Raniganj.	

station, the data for that station are not utilized in calculating the provincial departures from normal.
the figure column Nos. 37, 39 and 41 are derived are incomplete.

† Wind directions for 281 days.
‡ " " " 362 "
§ Wind directions for 353 days.
‖ " " " 363 "
¶ Wind directions for 364 days.
** " " " 361 "
†† " " " 360 "
‡‡ " " " 354 "

Table

Abstract of observations taken at 8 h.

Number of rainfall Division.	Station.	Elevation of bar cistern above sea-level in feet.	Pressure 8 A.M. in inches: Mean 8 h. pressure reduced to 32°.	Departure from normal of	Mean 8 h. pressure reduced to sea-level and constant gravity at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Temperature of air: Mean of 8 h. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
11	Burdwan	99	29·764	+·012	29·814	29·280	29·246	·984	·277	73·8	87·3	−1·7	59·7	−0·9	78·5	−1·3	17·6	107·4	40·2	67·2	30·6
	Naya Dumka	489	29·363		29·822	29·832	28·864	·968	·273	72·6	85·3		59·3		76·3		19·0	108·4	41·4	67·0	33·5
	Berhampore	67	29·797	+·012	29·815	30·264	29·306	·958	·278	73·1	85·7	−2·1	60·8	−0·7	77·3	−1·4	16·9	104·3	42·1	62·2	29·5
	Rampur Boalia	70	29·738		29·818	30·269	29·334	·935	·277	73·3	84·6		67·9		76·3		16·7	102·0	39·0	63·0	29·9
	Malda	72	29·779		29·805	30·267	29·280	·987	·283	72·5	84·2		67·7		76·0		16·5	102·1	39·0	63·1	30·6
	Bogra	61	29·801	+·021	29·816	30·253	29·324	·929	·276	71·3	84·2	−2·2	57·3	−0·9	75·8	−1·6	16·9	99·7	38·7	61·0	30·4
12	Dinajpur	123	29·744	−·010	29·825	30·210	29·285	·925	·288	71·5	84·0	−2·0	65·4	−1·7	74·7	−1·9	18·6	99·3	34·0	65·3	32·2
	Rangpur	123	29·764		29·816	30·213	29·328	·885	·287	71·4	83·1		68·4*		76·4*		16·0*	95·2	43·8	51·4	27·7
	Jalpaiguri	284	29·595	+·015	29·845	30·050	29·179	·871	·299	70·4	82·0	−1·7	65·0	−0·9	73·6	−1·2	17·0	94·4	35·1	58·3	29·0
	Cooch Behar	156	29·725		29·842	30·190	29·297	·893	·300	70·9	82·3		65·0		74·2		16·3	94·4	37·6	56·8	27·8
17	Purnea	125	29·743	+·020	29·827	30·223	29·314	·909	·280	70·7	83·9	−2·8	65·6	−0·7	74·8	−1·8	18·3	102·3	35·0	67·3	31·8
14	Balasore	50	29·817	+·012	29·810	30·285	29·339	·956	·287	74·9	87·8	−0·8	69·4	−1·1	78·6	−1·0	18·4	111·5	44·4	67·1	31·9
	False Point	21	29·852	+·016	29·815	30·291	29·393	·898	·283	76·8	85·2	−0·7	71·8	−0·3	78·5	−0·5	13·4	108·5	48·0	60·5	28·8
	Cuttack	80	29·790	+·019	29·816	30·246	29·372	·874	·271	76·2	90·4	−1·0	72·5	−0·1	81·5	−0·6	17·9	112·5	51·1	61·4	31·3
	Puri	24	29·856		29·818	30·302	29·410	·892	·281	77·8	85·6		74·6		80·1		11·0	95·7	53·6	42·1	22·5
	V—Gangetic Plain and Chota Nagpur			+·011†							86·8	−1·6	66·0	−1·2	76·4	−1·4	20·7			73·7	35·4
15	Hazaribagh	2,007	27·827	−·002†	29·811	28·222	27·389	·833	·248	71·3	83·5	−1·1	64·8	−0·8	74·2	−1·0	18·7	108·1	37·8	70·3	32·7
	Ranchi	2,128	27·718	+·013†	29·828	28·114	27·283	·831	·250	70·5	83·0	−1·5	64·7	−0·5	73·9	−1·0	18·3	106·3	38·5	67·8	31·7
	Daltonganj	*730*	29·119		29·826	29·578	28·675	·902	·268	72·3†	90·3†		66·3†		78·3†		24·0†	115·1	32·5	82·6	39·2
	Purulia	*816*	29·028		29·809	29·478	28·543	·930	·269	73·4	88·1		67·4		77·8		20·6	112·7	41·9	70·8	34·9
	Chaibassa	*760*	29·081	+·012	29·809	29·489	28·614	·875	·267	71·7	89·2	−1·3	63·2	−0·7	76·7	−1·0	21·0	113·9	43·5	70·4	35·4
16	Gaya	375	29·474	+·011	29·811	29·949	29·024	·925	·272	73·7	87·9	−2·1	67·5	−1·3	77·8	−1·7	20·4	113·0	42·0	71·0	34·8
	Dehri	351	29·487		29·802	29·970	29·052	·918	·275	73·6	88·0		68·7		78·4		19·3	112·5	42·0	70·5	33·6
	Patna	183	29·666	+·005	29·807	30·164	29·243	·921	·275	72·7	85·6	−2·1	67·3	−1·2	76·5	−1·7	18·3	106·5	36·3	70·2	33·5
	Arrah	190	29·667		29·816	30·151	29·245	·906	·267	72·2	86·7		67·0		76·9		19·7	109·9	40·0	69·9	34·2
	Buxar	239	29·604		29·806	30·097	29·191	·906	·273	72·2	86·9		66·7		76·8		20·2	111·9	37·0	74·9	34·6
17	Bhagalpur	160	29·700		29·816	30·181	29·241	·940	·274	74·3	85·5		66·8		76·2		18·7	107·8	37·7	70·1	32·9
	Darbhanga	166	29·685	+·007	29·808	30·152	29·266	·886	·278	71·3	84·3	−1·5	66·0	−2·7	75·2	−2·1	18·3	104·1	34·2	69·9	31·9
	Muzaffarpur	178	29·682		29·820	30·152	29·243	·909	·276	72·0	84·2		65·6		74·9		18·6	105·8	36·2	69·6	32·1
	Motihari	224	29·629		29·820	30·106	29·210	·896	·285	68·9	84·8		64·1		74·5		20·7	102·9	32·1	70·8	35·1
	Chapra	181	29·653†		29·794†	30·135	29·205	·930	·266	71·4	86·1		66·1		76·1		20·0	106·5	37·7	70·8	33·8
18	Benares	267	29·572	−·015	29·807	30·072	29·164	·908	·271	73·2	87·8	−1·8	64·9	−2·0	76·4	−1·9	22·9	111·5	34·5	77·0	37·8
	Allahabad	309	29·537	+·014	29·808	30·006	29·111	·895	·274	73·1	88·9	−1·3	65·7	−1·1	77·3	−1·2	23·2	114·7	34·1	80·6	39·4
23	Gorakhpur	257	29·581	+·012	29·802	30·042	29·172	·870	·275	72·0	84·4	−3·6	65·7	−1·7	75·1	−2·7	18·7	107·6	37·0	70·6	32·4
19	Lucknow	368	29·464	+·008	29·801	29·935	29·066	·869	·284	72·0	86·3	−1·4	64·6	−0·9	76·5	−1·2	23·7	114·3	34·6	79·7	35·6
20	Bahraich	401	29·429	+·010	29·802	29·884	28·996	·888	·289	71·0	86·0	−2·2	64·4	−1·3	75·2	−1·8	21·6	111·2	32·6	78·6	37·4
21	Cawnpore	416	29·422	+·018	29·808	29·886	29·034	·852	·274	72·3	89·1	−0·9	64·3	−1·5	77·0	−1·2	24·2	113·1	33·1	80·0	40·1
	Mainpuri	516	29·328	+·027†	29·816	29·780	28·912	·867	·276	71·7	89·6	−0·3	65·5	0	77·6	−0·2	24·0	115·7	31·3	84·4	41·3
	VI—Upper Sub-Himalayas			+·010							85·9	−1·7	62·9	0	74·4	−0·9	22·9			82·6	40·2
24	Bareilly	568	29·259	+·015	29·809	29·732	28·824	·908	·287	69·4	85·7	−1·9	53·7	−1·0	74·7	−1·5	22·0	111·0	32·1	78·9	37·6
	Dehra Dún	2,233	27·601	+·005	29·839	27·980	27·267	·773	·286	64·3	79·5	−1·7	59·0	−2·0	69·3	−1·8	20·5	104·5	36·0	74·5	34·8
	Roorkee	899	8·925	+·015	29·821	29·385	28·483	·902	·298	67·0	84·6	−2·5†	50·6	−2·0	72·6	−2·3†	24·0	111·6	28·2	83·4	41·4

* Mean of 10 months. † Mean of 11 months.

Note 1.—When a query is inserted against any reading or in the returns of any

Note 2.—The data from which divisional means of

N.B.—Elevations in italics indicate barometrical determinations.

I—*contd.*

at 228 stations in India, Burma, etc., in the year 1905—contd.

Wind direction. Number of winds from									Wind velocity.				Hygrometry, 8 h.				Cloud.		Rainfall.						Station.	Number of Districts.
Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Mean daily velocity in miles per hour, instruments of new uncorrected.	Normal (to necorrected).	Percentage departure from normal.	Mean velocity corrected (where possible).	Mean humidity at 8 h. of year.	Departure from normal of year.	Mean vapour tension at 8 h. of year.	Departure from normal of year.	Mean cloud amount at 8 h. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.		
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
146	32	23	30	14	32	33	28	27	2·3	3·3	−30	2·3	·89	+ 2	·717	+ ·021	4·8	+0·3	90	77·88	+12·12	88·88	57·05	+31·83	13·78	Burdwan.	11
286	5	4	28	21	14	2	1	4	1·7			1·9	77		·657		3·3		78	79·60	−1·60	58·13	58·65	− 0·52	3·36	Naya Dumka.	
165	10	9	47	16	57	19	27	15	2·5	3·5	−29	2·1	83	− 2	·726	− ·017	5·2	+0·5	87	77·22	+ 9·78	65·20	55·13	+10·07	3·15	Berhampore.	
285		4	5	15	30	21	5		3·1			3·2	84		·730		3·7		93	75·14	+17·86	77·15	57·62	+19·53	5·00	Rampur Boalia.	
19	41	58	40	62	39	30	29	46	5·5			5·2	83		·704		3·3		86	69·20	+16·80	66·38	54·18	+12·20	5·30	Malda.‡	
239	3	7	72	4	17	8	7	4	1·9			1·6	84	0	·688	−·042	4·2	+0·2	110	81·24	+28·16	75·54	67·14	+ 8·40	6·21	Bogra.	
16	26	82	34	33	32	32	30	25	2·3			2·7	82	− 1	·673	−·021	5·5	+1·3	91	72·06	+13·94	72·98	38·98	+ 1·98	9·72	Dinajpur	
72	5	106	54	44	19	95	4	15	2·7			2·5	78		·665		4·6		92	81·61	+12·39	84·86	34·02	+ 0·84	4·15	Rangpur.	
145	33	50	67	38	10	3	5	14	1·3			1·7	85	+ 1	·671	−·015	4·2	+0·4	108	99·26	+ 8·74	135·75	123·20	+12·55	5·02	Jalpaiguri.	
187	1	55	80	26	4	5	3	4	1·3			1·3	88		·680		5·1		120	100·59	+19·41	137·67	128·63	+9·04	6·75	Cooch Behar.	
134	2	80	63	17	1	26	15	27	2·6	2·4	+ 8	2·4	81	0	·684	−·005	2·9	−0·7	83	70·51	+12·49	66·48	64·88	+ 1·60	3·65	Purnea	17
35	62	19	7	6	25	120	26	65	4·9			3·7	78	− 5	·712	−·004	4·8	−0·3	90	81·12	+ 8·88	52·48	64·68	−12·20	3·93	Balasore	14
17	59	12	7	11	37	94	68	60	8·2	9·2	−10	8·5	84	− 1	·800	−·026	5·8	+0·7	78	73·74	+ 4·26	51·80	65·69	−13·89	4·57	False Point.	
152	5	19	24	3	28	87	38	8	2·9	3·4	−15		78	0	·742	+ ·003	4·7	+0·4	63	75·61	−12·61	35·47	59·70	−24·23	3·16	Cuttack.	
84	76	29	2	2	8	145	8	10	12·2			11·9	82		·813		3·8		56	62·68	− 6·68	36·35	58·14	−21·79	3·30	Puri.‡	
													75	0	·606	−·012	3·5	+0·1				46·72	45·97	+0·75		V.—Gangetic Plain and Chota Nagpur.	
19	26	11	26	21	65	76	62	59	3·0	6·3	+18	7·1	61	− 4	·489	−·032	5·8	+0·5	74	75·70	− 1·70	53·11	53·40	− 0·29	3·48	Hazáribagh	15
16	38	17	21	25	34	50	86	78	6·8			7·8	66	− 1	·512	−·026	4·0	+0·5	81	81·49	− 0·49	49·75	55·79	− 6·04	2·58	Ranchi	
264	5	10	26	20	4	33	10	3	3·8			3·1	66†		·537†		2·9		74	62·52	+11·48	47·62	44·53	+ 3·09	6·42	Daltonganj.	
28	11	28	27	21	29	30	120	75	3·3			4·0	71		·618		3·3		80	75·91	+ 3·09	58·65	52·71	+ 2·94	4·53	Purulia.	
262		3	3	3	4	32	13	3	3·1*			2·7*	78	+ 4	·638	−·020	3·2	+0·4	86	75·30	+10·70	54·71	51·29	+ 3·42	3·45	Chaibassa.††	
101	10	36	26	28	47	47	66	4	4·3	2·6	+62	3·4	71	0	·633	−·004	3·6	−0·1	57	57·38	− 0·38	41·69	47·00	− 5·31	4·72	Gaya	16
30	6	5	55	17	76	105	58	11	6·2			5·5	72		·596		5·0		49	55·34	− 6·34	42·56	43·20	− 0·64	4·02	Dehri.	
28	4	28	105	25	23	66	69	17	5·0	3·0	+67	5·6	74	+ 2	·647	−·006	3·8	+0·2	61	55·35	+ 5·65	62·17	48·04	+14·13	4·86	Patna.	
229	2	35	5	21	12	48	14	2	2·3			2·3	72		·614		1·5		59	55·93	+ 3·07	39·76	46·04	− 6·28	2·40	Arrah.	
18	13	10	113	24	37	82	61	7	6·0			5·6	69		·579		3·7		54	54·74	+ 0·74	39·99	41·55	− 1·56	4·35	Buxar.	
149	12	39	45	23	26	22	25	8	2·8			2·6	74		·666		3·7		71	60·81	+10·19	55·25	49·36	+ 5·89	3·13	Bhagalpur.	17
82	5	33	136	25	6	25	45	8	3·3	3·6	− 8	2·9	85	+ 6	·706	+·025	3·6	+0·7	67	58·35	+ 8·65	72·60	51·07	+21·53	9·10	Darbhanga.	
196	1	13	65	43	3	10	19	10	3·5				82		·690		2·3		64	55·27	+ 8·03	62·84	45·63	+17·21	5·47	Muzaffarpur.	
120	9	55	94	14	8	32	26	7	4·3			4·0	85		·637		3·8		68	55·74	+12·26	68·65	51·66	+16·99	5·81	Motihari.	
98	13	29	89	30	30	55	17	4	2·9			2·6	78		·637		3·5		56	52·29	+ 3·71	44·18	40·89	+ 3·29	3·56	Chapra.	
137	8	17	42	33	6	73	48	21	2·6	3·6	−33	3·0	71	− 3	·614	−·011	2·4	0	57	50·61	+ 1·10	47·66	40·99	+ 6·99	9·36	Benares	18
53	7	31	45	24	17	48	106	34	4·5	4·6	− 2	3·7	69	+ 1	·577	−·017	3·8	+0·3	41	45·30	− 2·30	28·65	40·73	−12·08	4·79	Allahabad.	
141	11	31	36	12	7	19	33	25	1·7	2·5	−32		76	+ 1	·640	−·002	2·7	0	65	54·10	+10·90	53·84	52·01	+ 1·83	3·60	Gorakhpur	23
													67		·502	−·010	2·7	−0·5				23·09	36·57	−13·32		VI.—Upper Sub-Himalayas.	19
143	5	27	45	22	12	26	55	30	2·2	3·1	−29	2·4	66	− 4	·552	−·040	2·9	−0·4	33	51·00	−12·00	30·07	38·89	− 8·82	2·99	Lucknow	20
153	13	11	62	48	8	12	22	36	2·4	3·8	−37	2·3	80	+ 5	·656	+·016	3·2	+0·2	56	50·40	+ 5·60	42·28	48·91	− 6·63	3·35	Bahraich	21
127	8	25	42	21	6	47	74	15	3·8				63	− 4	·528	−·060	2·5	−0·2	33	43·00	−10·00	22·70	35·94	−13·24	3·45	Cawnpore.	
182	18	18	39	41	21	45	60	42	2·9			2·9	69	+ 3	·567	+·013	3·3	0	28	36·10	−10·10	12·72	31·76	−19·04	2·54	Mainpuri.	
													67		·502	−·010	2·7	−0·5				23·09	36·57	−13·32		VI.—Upper Sub-Himalayas.	
286	1	1	44	9		2	36	6	2·1	3·5	−40	2·0	77	+ 5	·591	+·018	2·9	−0·1	43	47·17	− 4·17	23·98	47·86	−23·88	2·10	Bareilly	24
251	16	15	16	13	10	8	21	15	1·4	1·8	−22		71	+ 1	·469	−·009	4·0	0	74	80·90	− 6·90	54·97	89·19	−34·22	3·85	Dehra Dun.	
173	4	7	11	99	14	4	2	51	3·4	2·5	+36		71	0	·505	−·018	2·5	−0·6	42	49·10	− 7·10	21·38	43·22	−21·84	1·77	Roorkee.	

Stations, the data for that station are not utilized in calculating the provincial departures from normal.

The figure columns Nos. 37, 39 and 41 are derived are incomplete.

†† Wind observations of 326 days.

‡ " " 304 "

Table

Abstract of Observations taken at 8 h.

Number of rainfall Division.	Station.	Elevation of barometer above sea-level in feet.	Pressure 8 h. IN INCHES. Mean 8 h. pressure (reduced to 32°).	Departure from normal.	Mean 8 h. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Temperature of air. Mean of 8 h. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
22	Meerut	738	29·082	+·009	29·808	29·522	28·633	·889	·293	68·9	87·2	−0·7	53·1	−0·7	75·2	−0·7	24·0	111·7	31·1	80·6	40·2
26	Delhi	713	29·109	+·011	29·809	29·549	28·673	·876	·294	72·0	87·5	−1·5	57·6	+0·2	77·6	−0·7	20·0	112·2	32·5	79·7	36·2
28	Lahore	702	29·165	+·003	29·800	29·608	28·593	1·015	·355	69·1	87·3	−2·7	53·4	+2·5	75·7	−0·1	23·5	116·9	30·1	86·8	43·1
27	Sirsa	662	29·166	+·017	29·813	29·644	28·689	·955	·312	71·4	89·5	−2·4	55·1	+1·1	77·3	−0·6	23·6	114·3	29·0	85·3	43·8
	Patiala	*818*	29·001		29·810	29·474	28·526	·948	·306	69·4	85·4		53·2		74·3		22·2	113·0	30·7	82·3	38·9
29	Ludhiana	812	29·099	+·007	29·804	29·464	28·518	·946	·320	69·2	86·3	−1·9	54·2	+0·4	75·3	−0·8	22·1	114·8	30·0	84·8	39·2
	Sialkot	830	28·984	+·013	29·810	29·466	28·482	·984	·344	69·4	87·1	−0·6?	54·7	+2·0	75·9	+0·7?	22·4	117·5	32·5	85·0	91·2
	Ambala	892	28·925	+·018	29·813	29·396	28·458	·938	·311	69·3	86·7	−1·3	52·4	−0·8	74·6	−1·1	24·3	113·9	30·7	83·2	41·1
	Rawalpindi	1,674	28·147	+·001	29·845	28·611	27·665	·945	·352	65·8	83·1	−1·2	57·9	+0·3	70·5	−0·5	25·2	115·5	29·0	86·5	44·6
	VII.—Indus Valley and North-West Rajputana.			+·011							90·2	−1·2	65·5	+0·1	77·9	−0·6	24·7			83·4	43·4
32	Peshawar	1,110	28·721	−·002	29·859	29·235	28·203	1·032	·379	67·3	83·8	−1·9	59·3	+0·1	71·6	−0·9	24·5	117·0	27·9	89·1	43·3
	D. I. Khan	590	29·244	+·004	29·804	29·798	28·680	1·118	·396	69·3	88·2	−2·1	62·2	−0·3	75·3	−1·2	26·1	116·2	26·8	89·4	45·8
31	Khushab	612	29·219	+·022?	29·817	29·738	28·684	1·054	·369	71·0	88·4	−1·2	53·7	0	70·9	−0·6	24·7	113·8	27·9	90·9	45·6
	Montgomery	558	29·263	+·015?	29·804	29·786	28·732	1·054	·360	72·4	89·6	−2·7	54·2	−0·2	77·0	+1·4	25·4	117·3	27·5	90·3	45·9
	Mooltan	420	29·396	+·002	29·794	29·943	28·855	1·088	·385	71·6	90·9	−0·9	56·3	+1·0	73·6	0	21·7	118·5	29·0	89·5	43·5
47	Jacobabad	186	29·642	+·011	29·794	30·208	29·074	1·134	·363	74·0	95·5	−0·1	55·5	+0·3	80·5	+0·1	30·0	121·0	25·0	99·0	50·1
	Hyderabad	96	29·769	+·026	29·821	30·301	29·303	·998	·307	74·3	92·7	−0·7	57·8	−0·5	80·3	−0·6	24·9	119·7	33·5	86·2	41·7
	Kurtachee	30	29·857	+·020	29·833	30·347	29·408	·939	·281	74·4	86·3	−0·4	70·0	+0·2	78·4	−0·1	16·3	106·9	40·2	66·7	31·2
51	Bikaner	*771*	29·062	+·018	29·819	29·495	28·619	·876	·311	73·2	91·1	−0·9	58·5	−1·1?	79·8	−1·0?	22·5	117·3	31·1	86·7	41·4
	Pachpadra	*350*	29·484		29·831	29·503	29·027	·876	·277	73·0	93·5	−1·2	55·4	+0·5	79·4	−0·4	28·1	120·5	24·2	96·3	46·5
	Jodhpur	782	29·082		29·862	29·492	28·658	·839	·280	73·2	91·8		57·9		79·9		23·9	116·8	28·1	88·7	42·8
	VIII.—East Rajputana, Central India and Gujarat.			+·023							90·2	−0·2	67·8	+0·1	79·0	−0·1	22·3			76·7	37·7
50	Jaipur	1,431	28·434	+·018	29·852	29·830	28·064	·766	·253	73·5	91·1	+0·2	56·1	+0·4	73·6	+0·3	25·0	113·7	28·0	85·7	42·2
	Kotah	819?	29·021		29·852	29·490	28·587	·842	·284	76·3	92·8		70·5		81·1		22·3	115·1	35·5	79·6	38·4
	Sambhar	1,254	28·604	+·026?	29·851	29·061	28·227	·774	·262	71·5	90·3	+0·7	65·4	+0·2	78·1	+0·5	25·4	114·5	26·0	88·5	43·8
	Ajmer	1,611	28·265	+·019	29·869	28·647	27·879	·768	·258	71·3	89·5	+0·6	57·2	+2·7?	73·3	+1·7?	22·4	112·3	30·0	82·3	39·2
	Udaipur	1,925	27·962		29·868	28·312	27·547	·765	·245	72·2	88·1		64·4		76·3		23·7	112·1	31·2	80·9	40·3
46	Bhuj	395	29·500	+·033	29·856	29·901?	29·006	·895	·248	74·9	90·3	−0·6	58·6	−0·1	79·7	+0·4	22·2	114·3	39·9	74·4	36·4
	Jamnagar	61	29·849		29·855	30·201	29·441	·760	·232	75·7	89·6		58·5		79·1		21·4	106·7	36·7	70·0	35·8
	Rajkot	429	29·477	+·028	29·565	29·775	29·045	·730	·221	75·6	93·1	0	65·8	−0·3	79·5	−0·2	27·3	113·3	33·1	80·2	42·6
	Veraval	*18*	29·905	+·025	29·865	30·198	29·512	·686	·203	75·6	83·6	−1·6	71·2	+0·3	77·5	−0·6	12·4	99·1	40·2	58·9	24·8
	Dwarka	37?	29·879		29·862	30·245	29·459	·786	·230	77·2	83·9		72·8		78·3		10·3	100·4	45·6	54·8	21·0
	Bhavnagar Para	55	29·865		29·864	30·174	29·457	·717	·215	75·8	93·8	+1·0	58·7	−1·6	81·3	−0·3	25·1	112·7	39·0	73·7	40·0
(a) 49	Nowgong	757	29·093	+·011	29·827	29·539	28·676	·863	·262	72·2	89·3	−0·4	55·8	+0·2	77·6	−0·1	23·5	114·5	31·5	83·0	40·3
49	Indore	1,823	28·972	+·030	29·876	28·402	27·657	·745	·222	72·2	88·0	−0·1	53·0	−0·7	75·5	−0·4	25·0	110·6	31·1	79·5	40·0
	Neemuch	1,630	28·259	+·023	29·871	28·610	27·874	·736	·245	71·5	88·1	−0·8	54·1	−0·4	76·1	−0·6	24·0	112·1	29·8	82·3	39·8
45	Surat	39	29·883	+·028	29·867	30·201	29·521	·680	·204	76·2	90·5	−1·2	70·1	+0·7	83·3	−0·4	20·5	107·1	42·9	63·2	34·6
	Ahmedabad	163	29·739	+·022	29·854	30·069	29·262	·807	·231	76·6	94·0	0	70·0	−0·9	82·0	−0·4	24·0	114·3	38·7	76·3	38·2
	Deesa	466	29·423	+·023	29·853	29·745	28·915	·830	·246	74·8	94·8	+1·0	66·9	−0·2	80·9	+0·3	27·9	118·6	35·0	83·6	44·2
22	Agra	555	29·283	+·007	29·814	29·721	28·830	·891	·282	73·4	89·4	−1·3	58·6	+1·0	79·0	−0·2	20·8	114·0	33·9	80·1	37·5
21	Jhansi	858	29·003	+·017	29·833	29·446	28·598	·848	·262	75·7	91·9	+0·7	70·6	+1·7	81·3	+1·2	21·3	116·4	38·1	78·3	37·6

N.B.—Elevations in italics indicate barometrical determinations.

Note 1.—When a query is inserted against any reading or in the returns of any

Note 2.—The data from which divisional means of

I—*contd.*

at 228 stations in India, Burma, etc., in the year 1905—contd.

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Wind velocity. Mean daily rate of velocity in miles per hour, instrumental errors uncorrected.	Normal (incorrected).	Percentage departure from normal.	Mean velocity corrected (where possible.)	Hygrometry 8 h. Mean humidity at 8 h. of year.	Departure from normal of year.	Mean vapour tension at 8 h. of year.	Departure from normal of year.	Cloud. Mean cloud amount at 8 h. of year.	Departure from normal of year.	Rainfall. Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal.	Heaviest rainfall during year.	Station.	Number of District.
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
182	9	3	51	14	3	19	68	16	1·0	2·2	−55	1·0	65	+1	·498	−·009	2·8	−0·2	30	37·00	− 7·00	18·00	32·07	−14.07	2·43	Meerut	22
49	20	12	20	44	16	18	110	76	4·5	3·6	+25	4·0	58	0	·480	−·010	2·8	−0·6	13	37·10	−19·10	12·02	28·09	−16·07	2·90	Delhi	26
174	18	14	25	54	23	14	28	19	2·5	2·5	0		71	+6	·531	+·028	2·4	−0·3	20	22·90	− 2·90	17·42	20·10	− 2·68	6·61	Lahore	26
153	10	15	16	32	16	76	38	36	3·1	3·6	−14	2·7	63	+2	·503	+·021	1·9	−1·4	16	23·40	− 7·40	10·30	14·43	− 3·63	4·13	Sirsa	27
15	49	21	58	94	26	13	36	53	5·3			5·4	67		·523		3·0		29			21·27			2·12	Patiala.	
229	3	21		59		12	15	26	1·5	1·5	0	1·3	64	−2	·485	−·031	2·0	−1·6	31	32·70	− 1·70	16·13	28·67	−12·54	1·80	Ludhiana.	29
110	45	57	75	35	9	3	11	16	2·7	1·8	+50	2·3	64	−2	·491	−·019	1·9	−0·8	43	40·70	+ 2·30	31·33	31·75	− 0·42	4·35	Sialkot.	
142	1	8	11	104		6	8	85	3·3			3·0	71	−3	·525	−·032	2·8	+0·1	37	36·90	+ 0·10	22·20	32·96	−10·66	2·96	Ambala.	
238	11	28	20	24	10	9	7	18	3·2	2·0	+60	2·9	63	−5	·414	−·046	3·5	+0·3	19	47·30	+ 1·70	27·50	33·98	− 6·48	3·22	Rawalpindi	
													58	−1	·502	+·008	2·3	+0·4				6·65	9·99	−3.34		VII.—Indus Valley and North-West Rajputana.	
271	21	13	7	6	8	7	15	17	1·2	3·4	−65	1·3	60	− 3	·427	−·013	2·8	−0·2	27	23·80	+ 3·20	15·24	13·09	+ 2·15	1·61	Peshawar	32
228	11	62	1	22	4	3	5	27	1·5	1·8	−17	1·6	65	+1	·523	+·010	2·1	+0·1	20	17·60	+ 2·40	6·94	8·51	− 1·57	0·82	D. I. Khan.	
74	21	122	51	20	23	30	17	8	6·3			6·5	55	0	·447	+·001	2·0	−0·2	24	18·00	+ 4·00	15·54	14·12	+ 1·42	3·00	Khushab	31
41	22	36	30	64	61	68	18	25	7·0			6·5	51	−1	·410	−·065	1·9	−0·3	15	18·10	− 1·10	10·25	10·25	0	2·24	Montgomery.	
135	38	27	3	40	27	79	5	10	1·9	2·5	−24	1·7	59	+1	·494	+·021	1·8	−0·1	11	12·40	− 1·40	4·90	7·30	− 2·40	1·14	Mooltan.	
71	40	25	56	30	52	22	14	34	4·1	3·4	+20	4·5	58	+3	5·7	+ 019	1·5	−0·5	8	8·29	− 0·30	2·21	3·78	− 1·57	0·42	Jacobabad	47
25	64	17	2	3	41	145	25	43	10·3	10·1	+ 2	9·2	60	+2	·557	+·028	1·5	−1·2	10	9·70	+ 0·30	2·62	6·90	− 4·28	0·38	Hyderabad	
17	36	79	9	1	3	24	146	58	11·9	13·3	−11	11·5	71	+2	·651	−·027	4·8	+1·2	11	9·30	+ 1·70	3·64	3·26	− 4·62	0·86	Kurrachee.	
39	11	25	36	21	65	95	27	10	7·7	4·9	+60		52	−1	·492	−·007	2·1	−0·5	9	12·80	− 9·80	3·49	14·29	− 7·80	1·00	Bikaner	51
43	19	46	34	19	57	105	29	14	9·1	5·8	+57	8·2	59	+3	·553	+·003	1·3	−2·1	5	19·10	−14·10	4·79	13·30	− 8·51	3·51	Pachpadra.*	
33	23	37	21	9	14	121	52	5	6·5			5·9	48		·431		3·7		9	20·30	−11·30	3·51	13·14	− 9·63	0·60	Jodhpur.	
													60	−3	·550	+·024	3·1	±0·1				13·93	23·51	−13·59		VIII.—East Rajputana, Central India and Gujarat.	
69	36	56	17	41	7	48	57	64	4·8	5·1	− 6		50	−8	·440	−·054	3·1	−0·1	13	37·30	−24·30	4·73	26·05	−21·32	0·83	Jaipur	57
132	23	7	14	7	3	59	85	45	4·3			3·4	45		·425		2·1		18	37·60	−19·60	6·76	29·92	−23·16	1·25	Kotah.	
153	23	15	17	11	11	5	91	39	7·4	6·7	+10		55	−2	·467	−·013	2·7	−0·2	12	31·30	−19·30	5·37	20·74	+15·37	1·05	Sambhar	
94	6	32	2	25	7	60	74	65	8·1	4·3	+88	7·1	57	+6	·473	−·029	3·5	+0·5	13	32·60	−19·60	7·15	21·90	−14·69	2·05	Ajmer.	
221	7	9	1	4	4	47	69	13	4·5			4·0	62		·529		2·5		17	34·10	−17·10	17·43			3·96	Udaipur.	
74	19	22	6	5	2	66	91	80	13·2	10·2	+29	11·1	69	+5	·640	−·029	3·0	+0·1	11	16·10	− 5·10	6·46	14·52	− 8·06	1·43	Bhuj	46
15	11	28	50	8	17	126	86	23	15·8			17·5	64		·617		2·6		6			6·73			1·23	Jamnagar.	
67	20	18	39	7	5	54	117	45	8·8	9·2	− 4	8·7	61	+6	·583	−·041	2·9	−0·1	14	30·92	−16·90	16·93	28·12	−11·20	1·07	Rajkot. *	
4	79	52	8	11	7	71	81	49	10·3	7·9	+30	10·3	72	+2	·677	+·011	2·9	−1·0	9	29·20	−20·20	6·76	18·24	−11·48	3·05	Veraval. †	
2	41	54	19	2	28	110	66	43	13·8			8·8	78		·762		3·6		8			2·72			0·63	Dwarka.	
19	24	38	2	4	4	114	57	122	9·6				55	−14·7	·539	−·120	3·8	−0·5	42	34·70	−22·70	11·74	19·76	− 8·02	7·42	Bhavnagar Para. ‡	
85	19	11	50	12	15	35	114	24	2·0	2·5	−20	2·0	60	−6	·504	−·0417	4·1	+0·9	30	50·70	−20·70	16·25	44·96	−28·71	1·84	Nowgong	49
85	17	40	20	21	4	24	114	40	6·2	4·2	+48	5·9	58	−5	·489	−·034	4·4	+1·0	34	45·30	−11·30	29·67	61	− 3·97	5·79	Indore	
18	58	57	27	7	8	86	91	28	9·2	10·1	− 9	8·2	56	+4	·446	−·056	3·7	+1·1	20	37·40	−17·40	16·55	30·08	−13·53	2·62	Neemach.	
26	51	37	48	23	59	52	44	25	7·2	9·0	−20	6·7	71	0	·689	+·009	2·9	−0·5	26	47·40	−21·40	20·25	44·03	−23·77	5·49	Surat	45
14	32	56	42	6	23	73	46	67	4·2			4·2	57	−3	·561	−·021	4·2	+0·6	17	37·20	−20·20	12·36	33·24	+ 9·12	14·27	Ahmedabad. §	
1	22	74	48	13	36	47	58	25	10·3	10·3	0		53	−3	·510	−·014	3·2	−0·2	15	28·61	−12·61	19·79	24·12	+ 4·41	7·06	Deesa.	
36	1	29		89	2	192	1	65	5·9	4·2	+19	5·9	56	+5	·486	+·057	2·7	−0·1	23	35·30	−12·30	10·89	28·42	−17·53	1·61	Agra	22
89	10	24	15	16	18	85	49	59	5·2	3·4	+53	4·3	64	+9	·563	+·080	1·9	−0·5	29	43·90	−14·90	17·11	38·51	−21·40	2·07	Jhansi	21

station, the data for that station are not utilized in calculating the provincial departures from normal. the figure columns Nos. 27, 39 and 41 are derived are incomplete.

† Wind direction of 362 days.

‡ Wind direction of 364 days.

§ Wind direction of 359 days.

Table

Abstract of observations taken at 8 h.

Number of District.	Station.	Elevation of bar cistern above sea-level in feet.	Pressure 8 A.M., in inches.							Temperature of air.										
			Mean 8 h. pressure reduced to 32°.	Departure from normal.	Mean 8 h. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 h. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	IX.—Deccan.			+·017							90·4	+0·1	66·8	−0·5	78·2	−0·2	23·5			67·8	36·8
38	Belgaum	2,539	27·393	+·020	29·994	27·637	27·211	·426	·164	71·4	85·0	+0·6	63·6	−0·4	74·3	+0·1	21·4	99·3	49·9	49·4	32·1
	Sholapur	1,590	28·327	+·017	29·932	28·628	28·082	·546	·190	75·7	93·6	+0·3	68·2	+0·7	81·3	+0·3	25·1	111·2	48·1	63·1	36·9
	Poona	1,840	28·094	+·022	29·717	28·378	27·843	·535	·184	69·3	89·6	+0·2	63·6	−1·2	76·6	−0·5	26·0	108·6	42·5	66·1	36·5
	Bijápur	*1,948*	27·975	+·020	29·587	28·234	27·758	·476	·173	76·8	91·6	+1·7	63·1*	−0·3*	80·2*	+0·8*	24·1*	107·5	49·1†	58·4†	34·8
40	Malegaon	1,930	28·270	+·019	29·876	28·525	28·121	·654	·201	73·6	92·1	+0·5	57·8†	−0·8†	78·0†	−0·4†	28·2†	112·3	38·0	74·3	42·8†
	Ahmednagar	2,154	27·781	+·020	29·409	28·085	27·515	·571	·180	73·5	90·4	+1·7*	62·2†	?	75·1†	?	25·7†	110·0	42·4	67·6	38·5†
41	Akola	930	28·964	+·022	29·560	29·248	28·524	·724	·228	74·7	93·1	+0·2	56·3	−0·9	79·7	−0·4	26·8	114·0	38·4	75·6	40·5
	Amraoti	1,215	28·671	+·024	29·254	29·057	28·333	·724	·219	75·6	92·2	+0·1	58·8	−0·1	80·5	0	23·4	114·0	47·0	67·0	36·9
42	Khandwa	1,044	28·339	+·017†	29·943	29·207	28·391	·816	·229	72·9	91·9	+0·1	56·0	−0·9	79·0	−0·4	25·9	113·7	36·7	77·0	39·8
	Hoshangabad	1,006	28·384	+·024	29·973	29·293	28·417	·876	·249	72·8	90·0	+0·5*	55·1	−0·9	78·1	−0·7*	23·9	114·0	36·1	77·9	39·8
	Nágpur	1,025	28·351	+·024†	29·949	29·255	28·495	·760	·239	74·8	91·6	+0·5	57·8	−1·1	79·7	−0·8	23·8	114·6	45·6	69·0	38·3
43	Chanda	*634*	29·269	?	29·880	29·653	28·944	·699	·226	75·0	92·7	−0·2	57·4	−1·2	80·1	−0·7	25·3	113·7	41·0	72·7	40·5
	Seoni	2,033	27·845	+·013*	29·452	29·223	27·427	·796	·238	72·2	88·1	+0·3	54·5	−0·4	76·3	−0·1	23·6	109·9	39·5	71·4	37·9
	Jubbulpore	1,327	28·533	+·017	29·117	28·824	28·058	·766	·259	70·5	88·3	+0·2	53·0	−1·4	75·7	−0·8	25·3	112·0	31·9	80·1	40·4
	Saugor	1,807	28·055	+·012	29·741	28·433	27·634	·804	·249	72·7	87·2	−0·3	58·3	+0·2	77·1	−0·1	21·5	111·0	35·0	76·0	37·2
99	Sutna	1,040	28·300	+·010	29·925	29·228	28·320	·918	·289	72·2	87·9	+0·2	55·6	0	76·8	−0·1	22·3	112·6	34·0	78·6	37·1
44	Raipur	970	28·391	+·015	29·928	29·301	28·502	·799	·249	73·5	89·3	−1·2	58·4	−0·9	73·8	−1·2	21·0	112·3	44·8	62·5	34·9
	Pendra	2,122†	27·822		29·423	28·191	27·374	·817	·283	71·1	85·6		56·3		75·1		21·5	106·8	37·5	69·3	35·8
	Sambalpur	486	28·377	+·009	29·921	29·323	28·941	·382	·276	75·0	89·3	−1·2	60·4	−0·9*	79·6	−1·0*	20·4	112·1	44·7	67·4	33·4
39	Aurangabad	1,905	28·008		29·571	28·225	27·717	·508	·190	74·9	90·1		55·1		77·6		25·1	113·6	44·2	69·4	38·3
	Indur	1,230	28·535		29·849	28·797	28·387	·410	·116	76·9	91·9		57·2		79·6		24·8	111·2	45·1	66·1	36·6
	Bidar	*2,165*	27·770		29·387	28·095	27·508	·587	·205	76·0	88·3		59·3		78·8		19·0	106·8	52·3	54·5	30·6
53	Gulbarga	1,503	28·298	+·003	29·866	28·656	28·175	·481	·176	75·7	92·9	+0·8	58·8	+0·1	80·9	+0·4	24·1	110·9	50·9	60·0	35·2
	Raichur	1,326†	28·584	+·021†	29·869	28·904	28·377	·527	·173	77·4	92·7	+0·6	71·3	+0·2	82·0	+0·4	20·9	108·0	51·7	56·3	32·3
	Hyderabad (Dn.)	1,690	28·215	+·017	29·870	28·543	27·967	·576	·193	75·0	91·0	+0·3	59·3	+0·9	80·2	+0·6	21·7	108·4	48·3	60·1	33·7
	Hanumkonda	871	29·014		29·911	29·378	28·700	·678	·220	77·5	92·0		71·6		81·8		20·4	111·2	52·2	59·0	33·8
	X.—West Coast.			+·023							85·9	−0·3	74·3	−0·3	80·1	−0·3	11·7			30·7	19·7
37	Bombay	37	29·894	+·020	29·971	30·134	29·638	·546	·189	77·5	85·0	+0·2	73·5	−0·4	80·3	−0·1	11·5	94·5	58·0	38·5	20·8
	Ratnagiri	110	29·626	+·033	29·872	30·095	29·614	·481	·173	77·5	86·5	+0·9	72·4	+0·2	29·5	−0·8	14·1	95·8	56·6	39·2	24·2
	Mormugao	*60*	29·883	+·028	29·934	30·132	29·700	·442	·122	77·0	85·2	−0·9	75·3	−0·6	79·9	−0·3	10·9	93·0	4·5‡	32·2	19·0
	Goa	199	29·737	?	29·937	30·021	29·541	·480	·177	76·5	84·4	−1·3*	26·2*	+1·3*	80·4‡	·9‡	8·4‡	91·5	62·0	30·5	17·0
	Karwar	44	29·908	+·029	29·838	30·139	29·720	·419	·122	75·6	85·7	+0·5	72·1	−0·6	79·9	−0·3	13·6	92·8	56·5	36·3	21·7
3	Cochin	10	29·945	+·015	29·883	30·129	29·790	·339	·119	79·2	88·6	+1·1	25·2	+0·4	81·9	+0·8	13·4	93·8	66·8	27·0	20·2
	Calicut	27	29·930	+·019	29·887	30·143	29·733	·415	·142	78·4	88·7	−0·3	74·5	+0·3	80·6	0	12·2	91·7	66·2	25·5	19·3
	Mangalore	85	29·880	+·018	29·838	30·153	29·729	·424	·154	79·1	85·7	−1·4	73·8	−0·4	79·8	−0·9	11·9	91·7	64·5	27·2	20·1
	Trivandrum	198	29·750	+·023	29·831	29·910	29·595	·315	·129	77·9	84·4	+0·4	75·1	−0·3	79·8	+0·1	9·4	89·5	68·0	21·5	14·7
	XI.—South India.			+·018							91·1	+0·9	72·5	+0·5	81·7	+0·7	18·6			46·9	29·1
57	Pamban	37	29·899	+·029	29·882	30·132	29·705	·427	·156	82·1	93·7	+1·4	57·9	+0·4	83·3	+0·5	10·8	94·8	70·2	24·6	17·1
	Tinnevelly	168	29·779	+·025	29·877	30·022	29·581	·441	·154	82·3	94·6	+0·3	68·3	−0·3	85·5	0	13·3	101·5	66·0	37·6	27·4
	Madura	447	29·494	+·030	29·878	29·741	29·288	·453	·156	81·1	94·4	+0·5	74·4	+0·6	84·4	+0·6	20·0	104·0	63·7	40·3	28·9
	Periyakulam	944	29·395		29·846	29·219	28·797	·417	·149	77·7	93·0		70·2		80·7		22·8	101·6	55·0	46·6	33·6
34	Salem	940	29·017	+·011	29·905	29·275	28·816	·459	·158	79·0	94·5	+1·5	72·4	+1·7	83·5	+1·7	22·1	104·7	57·8	46·9	32·7
	Coimbatore	1,348	28·592	+·012	29·200	28·829	28·398	·431	·153	75·5	90·6	+0·3	70·1	+0·5	80·4	+0·4	20·5	101·4	58·7	42·7	29·5
35	Mercara	3,781	26·251	+·020	26·184	26·438	26·113	·325	·120	65·4	77·4	+0·4	52·9	−0·5	69·2	+0·2	18·5	82·0	50·6	31·4	25·4

* Mean of 11 months.

† Mean of 10 months. NOTE.—When a query is inserted against any reading or in returns of any

N.B.—Elevations in italics indicate barometrical determinations.

NOTE 2.—The data from which divisional means

I—*contd.*

at 228 stations in India, Burma, etc., in the year 1905—contd.

Wind direction. Number of winds from									Wind velocity.				Hygrometry 8 h.				Cloud.		Rainfall.					Heaviest rainfall during year.	Station.	Number of District
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean daily velocity in miles per hour, before correction.	Normal (uncorrected).	Percentage departure from normal.	Mean velocity corrected (where possible).	Mean humidity at 8 h. of year.	Departure from normal of year.	Mean tension of vapour at 8 h. of year.	Departure from normal of year.	Mean amount of cloud at 8 h. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.			
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
													60	− 3	·523	− ·027	3·5	−0·3				30·34	40·34	−9·95		IX.—Deccan.	
136	16	10	29	25	9	47	62	31	11·5	15·7	−27		·67	− 3	·523	−·014	4·8	+0·5	61	82·30	+22·30	28·74	50·12	−21·38	1·64	Belgaum	38
7	16	50	34	51	2	47	49	109	10·6	8·9	+19	12·0	49	− 6	·458	−·045	3·6	−0·4	28	42·00	−14·00	14·79	30·98	−16·19	1·67	Sholapur.	
46	18	6	24	13	3	23	140	92	10·9	10·0	+ 9		62	− 1	·466	−·041	3·7	−0·2	35	49·60	−14·60	25·09	27·89	− 2·80	4·50	Poona.	
2	46	23	45	25	18	32	94	61	7·3			7·2	64	− 6	·565	+·039	3·4	−0·5	27	42·40	−15·40	11·58	24·58	−13·00	1·92	Bijapur.‡	
64	19	9	5	2	3	23	150	80	8·0	7·2	+11	9·2	49	−14·2	·442	+·123	2·1	−1·4	18	34·90	−16·90	13·27	24·08	−10·81	1·47	Malegaon	40
49	23	8	4	15	15	24	58	172	7·6			9·2	59	− 8	·514	−·050	2·2	−1·1	24	39·60	−15·60	13·39	22·41	− 9·02	1·65	Ahmednagar.	
82	2	12	28	24	5	17	73	122	6·9	5·5	+25	6·1	55	− 3	·498	−·015	3·6	+0·2	31	45·10	−14·10	19·19	34·16	−14·97	3·03	Akola	41
21	23	56	48	11	22	59	105	20	6·3	4·7	+34	5·7	54	− 5	·502	−·035	2·9	−0·6	23	46·80	−13·80	25·61	36·63	−10·02	3·27	Amraoti.	
146	16	12	2	1	3	9	55	121	6·2	5·4	+15	5·9	56	− 3	·491	−·010	2·5	−0·5	29	42·30	−13·30	27·70	31·35	− 3·65	5·65	Khandwa	42
28	1	87	38	13	12	123	14	21	4·5	3·0	+50	3·6	32	− 4	·532	+·019	3·2	−0·3	49	56·00	−16·00	49·21	52·09	− 2·87	7·18	Hoshangabad.§	
32	104	51	12	3	19	18	56	62	7·3	6·2	+14	5·8	56	− 5	·508	−·045	3·4	−0·5	54	58·60	− 4·60	51·24	49·49	+ 1·75	6·10	Nagpur.	
158	17	10	11	19	23	36	68	25	4·6	3·7	+24	4·1	32	+ 2	·512	+·029	3·1	−0·5	50	61·70	+11·70	12·48	25·75	−13·27	2·93	Chanda	43
19	62	68	18	14	28	51	50	55	6·0	3·9	+54	5·0	57	− 7	·464	−·066	3·4	−0·1	52	71·40	−19·40	43·70	55·27	−11·57	5·20	Seoni.	
16	14	24	20	70	78	45	69	29	3·5	3·3	+ 6	3·9	46	− 3	·511	+·021	3·1	−0·2	48	63·80	−15·80	43·43	59·11	−15·68	7·50	Jubbulpore.	
35	9	37	34	43	7	61	118	20	7·5	3·5	+114	6·7	51	− 8	·423	−·072	3·3	+0·3	36	58·10	−22·10	25·34	48·57	−23·23	3·32	Saugor.‖	
110	13	12	35	17	8	39	88	48	3·5	6·1	−43	3·2	52	+ 1	·504	−·008	5·4	+2·5	46	54·60	− 8·60	30·62	45·88	−15·26	5·13	Sutna	49
133	18	28	14	3	16	103	33	12	4·8	5·6	−14	5·7	65	+ 2	·570	+·005	4·2	+0·1	62	62·50	+ 0·50	47·02	50·65	− 3·63	5·85	Raipur	44
111	56	11	9	17	52	28	17	64	4·9			4·2	60		·470		3·6		62			35·30			3·43	Pendra.	
	10	64	44	64	33	111	29	10	4·9	2·3	+113	4·8	70	− 1	·629	+·030	4·2	+0·3	81	72·00	+ 9·00	60·97	67·39	−6·42	5·30	Sambalpur.	
89	15	26	56	10	4	56	89	20	10·6			10·6	48		·439		3·1		24	47·40	−23·40	11·83	30·15	−18·32	1·85	Aurangabad.	39
144		5				25	2	129	4·3			4·1	57		·551		3·1		37	58·30	+21·30	35·25	39·57	− 4·32	5·50	Indur.	
	41	41	33	29	39	89	63	30	6·3			5·7	62		·579		3·2		46	59·10	−13·10	29·24	39·71	−10·47	3·44	Bidar.	
40	28	24	62	15	10	15	25	50	3·3			3·2	64	0	·579	+·008	3·0	−0·2	32	46·70	− 6·70	28·97	31·75	− 2·78	2·20	Gulbarga	53
43	9	12	43	46	14	140	31	27	11·1			10·8	59	− 6	·569	−·036	3·4	−0·3	33	44·20	−11·20	28·12	30·74	− 2·62	2·65	Raichur.	
199	4	6	27	13	4	4	103	18	4·7			4·5	66	− 4	·531	−·041	4·1	+0·5	40			22·56	31·58	− 8·02	2·68	Hyderabad (Dn.)	
36	23	2	4	91	35	21	56	47	7·9			7·0	63		·604		3·6		38	51·40	+13·40	24·16			2·80	Hanumkonda.	
													70	−1	·764	−·017	4·5	+0·1				30·71	101·74	−21·03		X.—West Coast.	
3	46	78	58	25	18	37	71	29	9·8	12·2	−20		76	− 2	·744	−·027	4·5	+0·3	58	75·60	−17·60	33·66	75·21	−41·55	3·24	Bombay	37
43	38	47	96	50	7	30	29	15	10·7	10·2	+ 5	10·6	72	+ 1	·701	−·026	3·9	0	74	53·30	−19·30	56·19	107·35	−51·16	3·49	Ratnagiri.¶	
22	82	24	37	44	70	34	19	33	9·1				82	− 1	·782	−·033	4·5	+0·7	94			25·70	93·43	−27·73	6·27	Mormugao.	
37	45	70	109	6	9	27	38	21	8·6				77	− 1	·761	−·017	4·4	+0·2	92			60·38	98·43	−38·05	7·39	Goa.**	
39	54	87	75	9	5	66	33	6	5·6				80	− 3	·716	−·029	3·6	−0·2	96	105·50	− 9·50	88·06	123·73	−35·72	5·36	Karwar.	
26	18	127	107	28	7	11	25	16	7·5				79	− 2	·802	−·010	4·7	0	108	130·60	−22·60	92·61	115·63	−23·02	6·55	Cochin	33
88	35	78	70	15	7	6	10	55	7·4			7·2	82	− 1	·799	−·013	4·8	0	111	118·10	− 5·10	108·72	115·11	− 6·39	4·82	Calicut.	
79	27	49	141	17	6	7	18	20	5·2	3·4	+53		80	− 1	·797	+·008	5·0	−0·1	112	117·30	− 5·30	140·47	123·91	+16·56	5·15	Mangalore.††	
77	38	29	8	1	3	5	24	125	5·6				79	− 3	·793	+·013	5·3	−0·2	96	92·30	+ 3·70	80·61	62·78	+17·83	5·33	Trivandrum.	
													74	− 1	·727	+ ·007	4·5	−0·2				29·72	36·15	−6·43		XI.—South India.	
65	33	55	24	29	41	78	21	19	11·2			11·3	83		·901		3·4		42	42·70	− 0·70	36·08	38·97	− 2·89	4·91	Pambam	37
3	89	47	10	7	6	23	90	80	5·7			5·5	66	− 3	·720	−·022	4·9	+0·2	44	41·40	+ 2·60	29·39	28·63	+ 0·76	3·11	Tinnevelly.	
24	48	105	30	5	3	16	28	106	5·9	4·2	+40	6·8	73	+ 3	·774	+·038	4·0	−0·2	41	50·20	− 9·20	27·47	33·30	− 5·83	4·24	Madura.	
201	35	19	9	14	32	15	17	19	3·0			3·2	99		·654		3·5		54	48·30	+ 5·70	31·20	28·86	+ 2·34	3·77	Periyakulam.‡‡	
27	15	42	86	12	29	31	61	12	5·6	4·4	+27	5·0	74	− 2	·748	+·015	4·6	+0·2	52	59·50	− 7·50	28·69	40·50	−11·81	3·00	Salem	34
19	51	56	61	8	20	83	73	5	7·2	4·8	+50	6·6	81	− 2	·727	−·012	3	−0·1	38	43·80	− 5·80	20·34	29·90	− 9·56	72	Coimbatore.	
1	37	93	40	4	3	18	92	70	4·4	5·8	−24	4·1	33	0	·527	−·030	4	−0·5	126	134·70	− 8·70	1 01·89	125·94	−24·05	4·83	Mercara.††	35

station, the data for that station are not utilized in calculating the provincial departures from normal.
of the figure columns Nos. 37, 39 and 41 are derived are incomplete.

‡ Wind direction of 336 days. § Wind direction of 364 days. ** Wind direction of 362 days. ‡‡ Wind direction of 281 days.
§ " " 363 " ‖ " " 355 " †† " " 304 "

Table

Abstract of observations taken at 8 h.

Number of rainfall Division.	Station.	Elevation of bar cistern above sea-level in feet.	Pressure 8 h. in inches. Mean 8 h. pressure reduced to 32°.	Departure from normal.	Mean 8 h. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Temperature of air. Mean of 8 h. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9.	10	11	12	13	14	15	16	17	18	19	20	21	22
36	Chitaldroog	2,406	27·538	+·014	29·387	27·791	27·349	·442	·152	74·1	88·0	+1·5	67·6	+0·5	77·8	+1·0	20·4	101·2	56·4	44·8	29·2
	Bangalore	3,021	26·960	+·012	29·313	27·171	26·798	·377	·146	70·4	85·6	+1·3	64·4	+0·3	75·0	+0·8	21·2	97·3	51·9	45·4	30·7
	Hassan	3,091	26·902	+·019	29·324	27·113	26·738	·375	·146	70·6	85·6	+2·9	62·0	−0·2	73·8	+1·4†	23·6	97·8	45·3	52·5	33·8
	Mysore	2,518	27·453	+·015	29·320	27·675	27·295	·380	·147	72·5	87·2	+0·9	66·0	+0·3	76·6	+0·6	21·2	100·4	54·4	46·0	30·1
56	Negapatam	31	29·893	+·012	29·953	30·143	29·665	·478	·161	81·3	91·3	+1·9	76·8	+0·9	84·3	+1·4	15·0	105·4	65·0	40·4	24·7
	Cuddalore	37 (a)	29·892	+·022*	29·958	30·160	29·656	·504	·172	80·3	92·4	+1·4*	75·1	+1·0*	83·8	+1·2*	17·3	103·2	60·1	43·1	27·7
	Trichinopoly	255	29·682	+·018	29·872	29·946	29·472	·474	·162	80·3	95·1	+0·7	74·5	+0·4	84·8	+0·6	20·6	105·2	61·4	43·8	30·2
	Madras	22	29·900	+·012	29·852	30·206	29·663	·543	·186	81·3	91·7	+0·8	75·4	+0·6	83·6	+0·7	16·3	108·0	57·5	50·5	27·5
	Vellore	707	29·217		29·870	29·511	28·993	·518	·180	78·6	87·1		72·5		79·8		14·6	104·4	54·8	49·6	27·9
55	Nellore	52	29·862	+·028	29·950	30·193	29·598	·595	·199	80·9	94·3	0	75·2	+0·1	84·8	+0·1	19·1	111·3	59·6	51·7	31·0
	Masulipatam	15	29·901	+·029	29·950	30·267	29·610	·657	·226	81·3	91·5	+1·0	75·3	+0·9	83·4	+1·0	16·2	111·7	59·2	52·5	28·3
54	Cuddapah	433	29·484	+·014	29·858	29·810	29·262	·548	·180	81·6	97·0	+1·5	74·9	+0·5	85·0	+1·0	22·1	111·3	53·3	58·0	34·7
	Kurnool	945	28·982	+·009	29·368	29·322	28·775	·547	·179	77·9	94·5	+0·7	71·4	+0·9	83·0	+0·8	23·1	108·8	45·3	63·0	35·6
	Bellary	1,475	28·337	+·010	29·370	29·745	28·238	·507	·167	76·7	94·4	+1·4	71·3	+1·0	82·9	+1·2	23·1	107·0	53·1	53·9	34·1
52	Cocanada	26	29·830	+·023	29·842	30·257	29·554	·703	·234	80·2	90·0	+0·6	75·1	+0·2	82·6	+0·4	14·9	110·0	59·5	50·5	27·5
	Waltair (Vizag.)	*226*	29·666	+·022	29·835	30·055	29·257	·798	·254	79·8	88·7	?	75·1	?	80·9	?	11·6	104·9	62·9	42·0	22·2
	Gopalpur	12	29·882	+·023	29·817	30·245	29·373	·872	·274	77·7	85·5	−0·5	73·0	−0·2	79·3	−0·4	12·5	100·2	53·5	46·7	24·4
	XII.—Hill Stations.																				
48	Fleetin										73·4		44·3		58·8		29·1	105·4	7·1	98·3	50·6
	Quetta	5,502	24·622*	−·002*	29·582*	24·916	24·306	·610	·274*	55·7	71·7	−1·8	43·2	−1·4	57·5	−1·6	28·6	99·1	8·8	90·3	49·4
	Kalat									58·3	72·7	−1·8	?	?	?		?	105·9	?	?	?
	Chaman	5,311	25·675	+·004	29·637	26·009	25·360	·649	·275	60·9	76·1	−3·3	52·1	−2·3	64·1	−2·8	24·0	107·7	13·1	94·6	47·0
30	Leh	11,503	19·675	−·022	19·683	19·981	19·697	·284	·350	34·7	51·3	−3·3	27·8	−1·9‡	39·5	−3·1	24·0	81·2	−3·1	90·3	43·9
	Srinagar	5,204	24·876	−·012	24·947	25·292	24·534	·668	·344	49·4	65·1	−0·3	43·9	0	54·5	−0·4	21·2	96·8	18·1	78·7	37·8
	Sonemarg	*8,764*	21·822		21·790	22·121	21·383	·738	·321	33·3	56·0†		27·0		43·2†		25·5†	81·9	−24·9	106·8	48·2
	Skardu	*7,505*	22·852		22·822	23·280	22·254	·926	·415	46·1	59·1		38·1		48·6		21·0	97·9	−4·8	102·8	44·2
	Dras*	*10,959*	20·799		20·767	21·089	20·217	·872	·361	34·4	51·6		24·0		37·8		22·6	92·5	−28·9	121·4	53·0
	Gilgit	4,890	25·125		25·093	25·584	24·694	·890	·434	57·7	70·3	−2·0	50·9	−2·3	60·9	−2·2	19·9	103·7	21·6	87·1	40·0
32	Chitral	*5,456*								52·7	72·1		45·6		59·0		26·5	107·5	9·0	98·5	46·7
	Killa Drosh	4,702								54·2	71·9		50·6		61·3		21·3	107·1	19·1	88·0	41·7
	Para Chinar	6,000	23·467		24·374	23·711	23·019	·692	·339	55·5	68·9		46·3		57·6		22·5	98·3	−2·3	101·1	42·3
	Chorat†	*4,256*	25·659	+·001	25·621	26·007	25·335	·672	·314	65·4	77·7	−0·7	59·9	−0·4	68·8	−0·5	17·8	106·5	28·0	78·5	37·7
29	Murree	6,333	23·320	−·010	23·788	24·118	23·483	·635	·290	54·5	60·5†	−3·6†	46·1	−2·7	52·7†	−1·3†	15·8†	90·1	12·0	78·1	34·9
	Kailang	*10,087*	20·915		20·870	21·056	20·508	·548	·226	36·5	52·3	−2·6	30·2	−1·7	41·6	−2·2	22·5	82·1	−3·0	85·1	41·5
	Poo										58·6		40·4		49·5		18·2	84·3	14·5	69·8	35·6
	Simla	7,224	23·082	−·010	23·044	23·346	22·862	·484	·243	51·7	65·9	−2·0	47·5	−2·3	53·2	−2·2	11·4	80·4	18·2	62·2	26·0
	Sarain		23·131			23·360	22·900	·460	·250	48·8	59·9		41·2		50·3		13·7	79·6	9·3	69·3	33·5
	Chakrata	7,022	23·254	−·011	23·215	23·503	23·010	·493	·244	52·1	61·8	−2·3	47·7	−1·8	54·8	−2·1	13·2	82·6	19·4	63·2	28·6
25	Ranikhet	6,069	24·070	−·007	24·028	24·327	23·804	·523	·250	55·4	65·3	−2·6	51·5	−2·1	58·3	−2·4	14·1	87·1	22·5	64·6	28·8
	Muktesar	7,500	22·798		22·755	23·042	22·566	·476	·245	51·1	60·9		46·5		53·7		14·4	81·5	17·9	63·6	29·7
13	Yatung	10,490									52·9		34·6		43·2		17·5	68·1	4·1	64·0	32·4
	Darjeeling	7,376	22·992	−·014	22·947	23·248	22·720	·528	·257	50·8	57·6	−0·3	46·3	+1·2	52·0	−1·0	11·3	72·7	23·0	49·7	22·8

N.B.—Elevations in italics indicate barometrical determinations. † Mean of 10 months.

(a) 12 feet up to 26th April 1905. * Mean of 11 months.

Note 1.—When a query is inserted against any reading or in the returns of any

Note 2.—The data from which divisional mean

I—*contd.*

at 228 stations in India, Burma, etc., in the year 1905—contd.

Wind direction. Number of winds from									Wind velocity.				Hygrometry 8 h.				Cloud.		Rainfall.							Station.	Number of District.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean daily velocity, in miles per hour, in terms of Beaufort scale, instrumental errors uncorrected.	Normal (uncorrected).	Percentage departure from normal.	Mean velocity, reduced (where possible).	Mean humidity at 8 h. of year.	Departure from normal of year.	Mean vapour tension at 8 h. of year.	Departure from normal of year.	Mean cloud amount at 8 h. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.		
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
19	11	8	46	41	4	69	120	27	8·1			7·0	69	− 1	·581	+ ·005	4·1	−1·0	34	48·50	−14·50	16·26	26·33	−10·07	1·91	Chittaldroog	36
5	3	30	72	28	28	103	83	13	8·5	5·2	+ 63	7·6	77	− 1	·583	+ ·003	5·0	0	48	58·60	−10·60	35·06	35·06	0	3·38	Bangalore.	
37	4	34	44	39	17	61	86	43	3·4			3·1	77	+ 1	·581	+ ·007	5·8	+0·2	53	68·20	−15·20	24·09	35·09	−11·00	2·25	Hassan.	
4	8	40	37	29	26	124	82	15	8·7			9·4	76	0	·606	+ ·005	6·2	+0·8	45	55·90	−10·90	20·39	30·91	−10·02	2·26	Mysore.	
44	6	47	4	16	26	62	87	73	10·7	5·6	+ 91	9·4	75	− 1	·611	+ ·003	5·1	−0·3	58	58·20	−0·20	35·78	55·56	−19·78	4·48	Negapatam	56
114	25	3	1	20	42	89	29	37	4·5			5·6	78	− 5	·822	−·0362	4·3	−0·9	46	56·30	−10·30	51·03	52·58	− 1·55	2·50	Cuddalore.	
178	24	19	5	3	19	97	69	10	5·3	5·8	− 10		72	0	·732	+·011	3·9	−1·5	45	59·60	+ 0·40	20·39	32·54	− 12·15	1·85	Trichinopoly.	
4	37	20	16	14	24	64	92	24	7·0	7·1	− 1		75	− 1	·809	+ ·004	4·6	−0·5	52	83·70	−31·70	42·72	50·39	− 7·67	5·05	Madras.	
156	16	39	19	40	9	32	11	43	3·8			3·8	74		·714		3·7		56	54·90	+ 1·10	40·95	38·47	+ 2·48	5·74	Vellore.	
14	19	14	25	67	49	29	93	55	5·9				72	− 2	·774	+ ·035†	4·9	−0·1	39	42·40	− 3·40	36·96	30·73	+ 6·23	6·49	Nellore	55
73	39	29	9	42	43	21	55	58	8·4	7·0	+ 20	7·4	82	0	·882	ψ ·046†	5·0	+0·2	38	51·00	−13·00	27·15	40·91	−13·76	3·85	Masulipatam.	
	1	31	33	93	5	47	78	77					67	− 1	·719	+ ·013	4·1	−0·2	42	43·70	− 0·70	24·49	32·69	− 8·10	2·31	Cuddapah	54
163	7	12	20	21	26	24	24	57	4·6				70	+ 4	·672	+ ·051	3·8	0	36	47·66	−11·80	25·77	22·40	+ 3·37	3·92	Kurnool.*	
54	17	6	20	39	21	29	104	78	6·8	6·5	+ 5	6·0	63	+ 1	·591	+ ·011	4·2	−0·5	30	34·30	− 4·30	16·98	19·73	− 2·75	2·30	Bellary.	
119	29	49	1	7	9	66	60	25	6·9			5·8	79	+ 4	·820	+ ·060	4·4	−0·3	47	53·90	− 6·90	23·97	39·84	−15·87	2·82	Cocanada	52
17	23	50	6	10	14	162	78	5	11·7				71	− 2	·725	−·042	6·1	+1·3	61	49·60	+11·40	33·88	43·54	− 9·66	2·16	Waltair (Vizag.)	
14	93	7	2	2	41	111	10	85	13·2	9·6	+ 38	12·9	77	− 4	·750	−·034	2·9	−1·7	48	55·20	− 7·20	32·65	47·53	−14·88	3·54	Gopalpur.	
																										XII.—Hill Stations.	
318	4	2	3	18	4	5	7	4	1·4	4·1	− 66	1·5	60	+ 2	·271	−·016	2·0	+0·1	32	42·20	+ 8·80	15·49	9·98	+ 5·51	1·53	Pishin.	43
	132		30		166		37						46		·212				35	26·80	+ 8·20	15·05	10·68	+ 4·37	1·22	Quetta	
																			28	19·50	+ 8·50	11·63	5·79	+ 5·84	1·62	Kalat.	
44	8	18	53	70	77	67	26	2	7·3			8·0	50	+ 6	·258	−·009	1·7	−0·3	30	19·60	+10·40	12·18	6·29	+ 5·89	1·65	Chaman.	
41	9	73	53	15	55	42	72	3	2·1				51	− 1	·126	−·005	5·0	+0·2	12	9·30	+ 2·70	3·99	3·00	+ 0·99	0·54	Leh	30
115	12	22	23	34	42	32	10	25	3·2			3·3	35	− 1	·332	−·019	4·3	+0·2	72	58·80	+15·50	26·48	24·72	+ 1·72	2·26	Srinagar.	
269	34	12	15	9	10	7	5	4	2·7			2·4	90		·196		4·2		128			131·67			5·12	Sonemarg.	
186	7	28	30	9	22	43	36	4	4·1			4·1	67		·291		4·7		22	17·00	+ 5·00	9·61	10·15	− 0·54	1·72	Skardu.	
288	5	5	7	2	5	2	18	5	3·7				77		·176		3·7		49	61·10	−12·10	27·01	24·53	+ 2·48	1·86	Dras.	
268	6	8	11	3	2	26	34	7	2·7			2·4	47	− 4	·239	−·030	5·0	+	21	14·00	+ 7·00	7·65	4·80	+ 2·85	1·10	Gilgit.	
311	13	7	9	2	16	2	1	1	3·7			3·2	68		·287		2·5		32			15·49			2·50	Chitral.*	32
178	8	6	133	3	18	14	6						69		·310		2·8		29			8·63			6·63	Killa Drosh.	
314	15	8	10	1	5	5	7	2	1·2			2·5	57		·259		1·2		56	58·20	− 2·20	25·24	25·17	+ 0·07	2·19	Para Chinar.	
76	113	4	3	8	26	4	12	53	3·3			7·8	54	+ 1	·365	+ ·017	2·4	− 0·7	31			28·41	24·43	+ 3·98	3·50	Cherat.	
214	21	3	15	39	27	3	4	9	5·2	6·8	− 24	5·6	58	+ 3	·261	−·002	3·1	−0·7	93	77·30	+15·70	73·20	55·85	+17·35	3·05	Murree	29
	5	13	26	60	41	91	87	42	1·0				63		·157		4·1		35			19·63	20·26	− 0·63†	2·50	Kailang.	
302	4	4	8	13	11	11	8	1									4·4		24			13·99	18·56	− 4·57	2·13	Poo.*	
86	123	16		19	76	3	10	27	4·8	2·2	+118	4·6	59	+ 1	·250	−·010	3·9	−0·3	95	80·10	+13·90	51·10	63·59	−12·49	3·96	Simla.	
250	11	5	7	4	35	29	9	4	2·2			2·1	68		·280		3·0		39			61·28			5·03	Sarsio.	
174	128	4		4	50	1		4	5·0	5·1	+ 18	7·2	66	+ 2	·282	−·009	3·7	+0·3	98	88·00	+10·00	67·96	70·71	− 2·75	4·77	Chakrata.	
206	4	22	13	6	1	55	33	25	2·6	2·1	+ 24	3·0	69	+ 2	·332	−·010	3·7	−0·2	78	79·70	− 1·70	43·29	54·52	−11·23	1·74	Ranikhet	25
44	11	15	64	33	17	34	133	14	3·8			8·1	66		·270		4·6		33			43·09			3·01	Muktesar.	
																			129	125·25	+ 3·75	51·34	49·48	+ 1·86	2·04	Yatung	15
147	3	47	19	52	7	29	35	15	4·7	3·7	+ 27	4·3	85	− 2	·343	+·014	6·2	+0·2	133	121·09	+11·91	151·42	124·38	+27·04	6·58	Darjeeling.§	

station the data for that station are not utilized in calculating the provincial departures from normal.
of the figure columns Nos. 37, 39, and 41 are derived are incomplete.

* Wind direction of 362 days.
§ " " " 358 "

† Rainfall of 11 months.

Table

Abstract of observations taken at 8 h.

Number of rainfall division.	Station.	Elevation of bar cistern above sea-level in feet.	Pressure 8 A.M. in inches. Mean 8 h. pressure reduced to 32°.	Departure from normal.	Mean 8 h. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Temperature of air. Mean of 8 h. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
3	Shillong	4,920	25·146		25·498	25·434	24·917	·517	·258	60·0	69·1		52·5		60·8		16·6	80·6	27·0	53·6	30·3
	Cherra Poonjee	4,309	25·690		25·611	25·972	25·382	·585	·256	60·7	67·7		56·0		61·9		11·7	80·2	33·0	47·2	22·5
50	Mount Abu	3,945	26·038	+·006	25·994	26·302	25·648	·654	·221	66·2	74·5	+1·6	61·3	+0·3	67·9	−1·2	13·2	97·7	32·0	65·7	28·3
42	Pachmahi	3,528								67·7	80·1	+0·6	59·9	−1·3	70·0	−0·4	20·2	103·2	31·3	71·9	34·5
34	Wellington	6,200	24·238	+·014	24·201	24·408	24·115	·293	·131	62·2	72·1	+0·9	53·1	−0·4	62·6	+0·3	19·0	80·2	37·2	43·0	30·5
	Ootacamund	7,332	23·052		22·995	23·181	22·951	·230	·127	57·0	66·0		49·6		57·8		16·4	76·6	34·1	42·5	25·3
57	Kodaikanal	7,633	22·925		22·760	22·954	22·711	·243	·115	56·9	65·1		51·1		58·6		14·0	74·7	39·3	35·9	23·4
	XIII.—Extra India.																				
	Trincomalee	12	29·916	+·022	29·854	30·091	29·725	·366	·147	79·1	88·6	0	70·4	·0	82·5	0	12·2	96·5	68·0	28·5	19·6
	Colombo	40	29·813	+·009	29·879	30·052	29·772	·280	·131	80·1	87·1	+0·1	70·9	+0·5	81·6	+0·3	11·1	93·5	67·0	26·5	17·6
	Meshed*	3,104								54·3			44·1	−0·1					−1·0		
	Teheran	4,009																			
	Ispahan	5,817	24·269†			24·540	23·930	·610	·354	52·1	73·0	−1·1	35·4	+0·2	53·2	−0·5	27·6	102·7	−2·8	105·5	46·4
	Bushire	14	29·877	+·015	29·850	30·359	29·391	·969	·319	72·3	81·0	−1·2	67·9	+0·6	74·5	−0·9	13·1	104·5	34·4	70·1	31·6
	Bahrein	15**	29·907			30·374	29·448	·926	·302	77·0	83·7		72·5		78·1		11·2	105·4	42·4	63·0	27·2
	Jask	13	29·959	−·007	29·939	30·241	29·617	·624	·286	77·7	85·4	−1·2	73·0	−0·4	79·2	−0·8	12·4	104·2	44·3	59·9	26·3
	Muscat	29	29·857	+·006	29·835	30·239	29·403	·836	·221	81·0	87·2	+3·3	78·1	+0·5	82·7	+1·7	9·1	107·7	57·1	50·6	21·9
	Baghdad	220	29·796	−·001	29·995	30·375	29·341	1·034	·399	66·2	80·3	+1·9	52·2	−0·1	73·0	+0·9	27·6	119·9	18·6	101·3	45·3
	Busrah	25																			
	Aden	98	29·837	+·012	29·863	30·127	29·534	·593	·209	86·2	97·5	−0·8	76·6	+0·3	82·1	0	8·9	97·3	62·4	34·9	16·2
	Perim	201	29·748	+·029	29·853	30·001	29·497	·504	·186	83·0	89·9	+0·1	80·2	+1·1	85·1	+0·6	9·7	100·3	69·2	31·1	15·2
	Kabul	...	24·270			24·87	23·969	1·004	·389	52·3	70·4	−1·6	39·6	+2·9	55·0	−2·1	30·7	102·1	+2·6	104·7	53·7
	Kashgar	4,255	25·589			25·710	25·120	1·090	·553	44·8	65·9	−0·3	41·4	−2·0	53·7	−1·1	23·5	102·1	−5·3	107·4	49·8
	Aminí Divi	18								82·7	87·7	+1·4	76·9	−0·2	82·3	+0·6	10·8	95·0	66·5	28·5	18·6
	Minicoy	7	29·963		29·896	30·101	29·803	·298	·132	82·3	86·8	+0·2						93·3			
	Zanzibar	72††	29·979	−·013	29·978	30·157	29·820	·337	·142	78·9	84·7	+1·1	72·6	+0·1	80·7	+0·6	8·1	91·7	69·9	21·8	14·6
	Do. Dunga*	156	29·911		29·994	30·062	29·779	·283	·127	77·3	86·6		72·0		79·3		14·6	95·7	62·8	32·9	21·8
	Penang(a)	20	29·924		29·869	29·962	29·857	·125	·073	80·9	89·8		73·8		81·8		16·0	94·0	67·0	27·0	20·9
	Singapore(a)	10	29·962		29·893	30·075	29·889	·186	·097	83·8	89·0		74·0		81·5		15·0	94·4	68·9	25·5	21·6

N.B.—Elevations in italics indicate barometrical determinations.

Note 1.—Where a query is inserted against any reading or in the returns of any

" 2.—The data from which divisional means of the figure columns Nos. 37

Note 2—The barometric readings are not reduced to sea level in the cases of hill or plateau stations the elevations of which exceed 3,200 feet.

** 30 feet upto 8th November 1905. † Aneroid uncorrected. * Mean of 11 months.

†† 73 feet upto 19th February 1905. (a) 9 h. observations.

I—*concld.*

at 228 stations in India, Burma, etc., in the year 1905—concld.

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Wind velocity. Mean daily velocity in miles per hour (instrumental, erroneous uncorrected)	Normals (uncorrected)	Percentage departure from normal	Mean velocity corrected (where possible)	Hygrometry 8 h. Mean humidity at 8 h. of year	Departure from normal of year.	Mean vapour tension at 8 h.	Departure from normal of year.	Cloud. Mean amount at 8 h. of year.	Departure from normal of year.	Rainfall. Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	Station.	Number of District.
22	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
235		3	16	8	11	75	5	2	2·3			2·6	75		·417		4·6		135	120·40	+14·60	95·38	79·72	+15·66	4·74	Shillong	8
73	8	87	22	14	21	76	65	4	6·4			5·7	81		·455		6·0		163	161·70	+ 1·30	496·27	438·85	+57·42	16·12	Cherra Poonjee (e).	
44	40	39	6	10	9	196	34	37	9·3	7·0	+33	9·4	52	−3	·342	−·029	3·7	+0·4	30	54·20	−24·20	38·48	61·73	−23·25	8·95	Mount Abu	50
38	18	27	15	22	13	72	78	79	7·3	5·2	+40	7·5	57	−3	·385	−·042	5·2	−0·7	61	79·20	−18·20	79·03	76·21	+ 2·82	8·00	Pachmarhi (c)	42
207	24	35	16	15	10	43	11	4	2·7	3·3	−18		71	+3	·405	+·013	5·0	+0·6	92	86·80	+ 5·20	66·94	50·75	+16·19	4·82	Wellington	24
61	16	33	76	43	22	24	76	14	5·1			4·8	66		·311		5·1		89	90·70	− 1·70	51·54	46·60	+ 4·94	4·29	Ootacamund.	
	47	38	63	39	32	12	53	31	13·0				69		·311		4·3		97	99·40	− 2·40	59·96	64·32	− 4·36	8·31	Kodaikanal	57
																										XIII.—Extra India.	
121	1	36				200	6		6·0				86	+5	·355	−·009	3·0	−0·3	67			47·56	62·37	−14·81	2·60	Trincomalee (c).	
1	30	58	44	49	13	97	69	1	1·3	7·6	+ 9		83	+6	·362	+·017	5·2	+0·1	95			65·05	89·59	−24·53	3·00	Colombo.	
													69		·317		2·2	?	14			5·96	8·06	−2·10	0·86	Meshed.	
																										Teheran	
297	7	7	6	3	3	11	25	7	2·2			2·9	63	−1	·301	−·019	2·3	+0·2	14			3·49	3·64	−0·15	0·40	Ispahan (c)	
47	25	59	26	55	14	5	14	24	2·4	3·1	+22	10·3	25	+8	·645	+·037	2·1		15			3·62	12·11	−7·49	1·15	Bushire (d).	
10	85	20	19	15	19	15	38	131	3·6			7·5	79		·769		1·0		6			1·38			0·25	Bahrein (e).	
60	23	42	136	19		18	5	60	10·5			3·3	73	+2	·729	0	3·8	+2·2	14			7·96	4·96	+3·00	1·38	Jask (c)	
212	26	4	3	36	4	1	15	58	3·6			3·7	63	−6	·712	−·030	3·2	+1·6	11			5·59	3·43	+1·16	1·28	Muscat (f).	
164	31	10	7	8	13	1	20	96	3·6	3·7	− 3	4·3	55	−4	·393	−·046	1·9	+0·7	10			3·22	9·02	−5·80	0·81	Baghdad (g)	
																										Busrah	
5	21	134	97	43	5	27	9	18	10·5	11·5	− 9	8·5	75	+2	·851	+·070	2·6	−1·6	4			5·04	2·97	+2·07	1·77	Aden (c)	
	21	11	190	61	24	2	33	23	16·8			17·1	71	−2	·838	+·013	2·1	−1·9	6			2·33	1·32	+0·91	0·94	Perim	
	36	104	71	29	49	13	26	35					67		·327		1·8	?	18			10·96	11·53	−0·57	0·99	Kabul (h).	
273	2	3	7	8	2	8	9	52	2·3			2·1					3·3	−0·9	11			6·69	3·99	+2·70	3·08	Kashgar (c).	
73	43	32	6	2	2	14	69	69					75	?	·832	?	5·5	?	73			59·98	48·41	+11·57	5·50	Amini Divi.	
	102	55	12	5	5	20	77	87	7·0			7·5	77	−2	·842	−·006	4·7	+0·1	76			62·90	57·48	+5·52	4·48	Minicoy.	
	52	98	14	47	120	76	4	4	6·3			6·4	85	+2	·840	+·023	6·2	+0·3	92			73·71	55·04	+18·67	5·21	Zanzibar.	
162	14	48	3	15	15	38	3	1	4·7			4·6	88		·828		6·6		105			73·89			6·10	Do. Dunga (i).	
52	59	98	57	22	43		1	23	10·8								0·8		111			78·31			2·86	Penang.	
	7	103	31	85	58	48	13	19	5·1								4·4		128			82·69			4·13	Singapore (c).	

station, the data for that station are not utilized in calculating the provincial departures from normal.
39 and 41 are derived are incomplete.

(c) Wind direction for 364 days.
(d) " " 362 "
(e) " " 349 "

(f) Wind direction of 359 days.
(g) " " " 358 "
(h) " " " 353 "
(i) " " " 356 "

TABLE II.—Abstract of Observations taken at 10 h. and 16 h. at 64 Stations in India, Burma, etc., in the year 1905.

Table

Abstract of Observations recorded at 10 h. and 16 h.

Meteorological Province.	Station.	Elevation of bar cistern above sea-level in feet.	Pressure.						Temperature of air.								
			Mean of 10 h.	Mean of 16 h.	Mean daily range.	Mean of daily mean pressure.	Departure from normal.	Mean, reduced to S. L. and for gravity 45° Lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 h.	Mean 16 h.	Mean of daily mean.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Burma Coast and Bay Islands.	Port Blair	61	29·899	29·801	·092	29·848	+·032	29·840	87·1	72·3	9·8	96·0	68·5	27·5	84·0	84·9	81·2	0
	Rangoon	57	·878	·761	·118	·819	+·067	·814	88·6	73·3	15·3	103·5	58·5	45·0	83·2	85·4	79·0	−0·2
	Diamond Island	41	·897	·794	·103	·847	+·011	·823	84·5	76·1	8·4	92·2	68·2	24·0	82·8	83·0	80·0	−0·1
	Cocos Island	119	·816	·718	·098	·769		·820	86·2	77·0	9·2	97·2	70·8	26·4	82·8	82·9	80·5	
	Akyab	20	·902	·796	·106	·849	+·012	·811	84·6	71·6	13·0	94·9	51·1	43·8	79·4	81·9	77·8	−1·1
Bengal and Orissa	Chittagong	87	·823	·718	·105	·769	+·014	·721	83·5	68·7	14·8	92·7	46·4	46·3	78·6	80·4	75·9	−1·0
	Calcutta (Alipore)	21	·862	·749	·113	·804	+·017	·771	86·0	69·8	16·2	106·1	45·9	60·2	80·4	83·8	77·3	−0·7
	Saugor Island	25	·847	·738	·109	·790	+·006	·759	85·3	72·9	12·4	98·6	65·7	52·9	80·6	82·5	77·9	−0·5
	False Point	21	·867	·760	·107	·727	+·012	·773	85·2	71·8	13·3	106·5	48·0	60·5	81·3	82·3	77·4	−0·5
Gangetic Plain and Chota Nagpur.	Hazaribagh	2,007	27·341	27·247	·094	27·792	+·001	·745	83·5	64·8	18·7	107·9	37·6	70·3	77·0	80·4	73·3	−1·0
	Allahabad	369	29·553	29·438	·115	29·490	+·011	·754	89·0	65·5	23·5	115·5	34·3	80·2	86·9	87·3	78·0	−1·3
Upper Sub-Himalayan.	Dehra Dun	2,233	27·821	27·538	·083	27·573	+·001	·780	79·7	59·0	20·7	104·6	30·4	74·2	71·6	75·5	68·5	−1·2
	Roorkee	859	28·043	28·843	·100	28·886	+·010	·759	86·6	60·8	25·8	111·6	28·4	83·2	75·6	82·1	71·3	−2·2
	Meerut	738	29·048	·943	·100	·992	+·009	·695	88·3	66·7	21·6	112·0	31·1	80·9	79·3	85·9	76·3	−1·2
	Lahore	702	·125	29·037	·088	29·073	+·002	·747	87·9	63·7	24·2	116·8	30·1	86·7	78·2	85·8	74·7	−0·1
	Ludhiana	812	·009	28·941	·068	28·963	+·002	·748	86·4	64·1	22·3	114·8	30·0	84·8	77·1	84·5	74·0	−0·6
Indus Valley and N.-W. Rajputana.	Peshawar	1,110	28·749	·651	·098	·693	+·002	·791	83·9	59·3	24·6	117·0	28·1	88·9	75·8	81·3	70·5	−0·9
	Jacobabad	186	29·641	29·535	·105	29·586	+·001	·732	95·6	65·5	30·1	124·0	25·0	99·0	85·8	92·1	79·5	+0·1
	Kurrachee	30	·872	·778	·094	·822	+·022	·804	86·8	70·0	16·8	106·7	40·4	66·3	81·4	83·2	77·4	−0·2
Eastern Rajputana, Central India and Gujarat.	Jaipur	1,431	28·449	28·343	·106	28·390	+·013	·771	91·1	66·3	24·8	113·7	28·0	85·7	81·8	88·9	77·4	+0·3
	Udaipur	1,925*	27·972	27·871	·101	27·919		·782	88·1	64·5	23·6	112·0	31·4	80·6	80·4	85·9	76·0	
	Deesa	466	29·432	29·315	·117	29·370	+·020	·785	94·7	66·9	27·8	118·5	35·1	83·4	84·6	92·6	80·5	+0·3
	Jamnagar	61	·852	·752	·105	·801		·807	89·9	68·4	21·5	106·6	36·8	70·2	83·3	86·8	78·1	
Deccan	Belgaum	2,539	27·406	27·297	·103	27·339	+·019	·792	85·1	63·6	21·5	99·3	49·9	49·4	78·0	82·1	72·9	+0·4
	Sholapur	1,590	28·329	28·191	·138	28·262	+·013	·778	93·3	68·7	25·1	111·2	48·1	63·1	83·2	91·3	79·9	+0·1
	Akola	930	·971	·835	·136	·902	+·018	·771	93·1	66·3	26·8	114·0	38·6	75·4	83·9	91·3	78·3	−0·3
	Buldana	2,132	27·783	27·671	·112	27·722	−·001	·776	87·5	66·9	20·6	107·6	45·1	62·5	79·9	85·4	76·1	−0·6
	Khandwa	1,044	28·851	28·722	·129	28·785	+·017	·783	91·8	66·0	25·8	113·7	36·7	77·0	82·2	90·4	78·4	−0·4
	Nagpur	1,025	·863	·733	·130	·797	+·025	·771	91·7	67·8	23·9	114·6	45·4	69·2	82·3	89·5	78·9	−0·7
	Nagpur (Sanitary Commr.'s Office.)	1,013	·868	·735	·133	·800		·765	92·3	67·9	24·4	115·9	45·4	70·5	83·3	89·9	79·2	
	Hyderabad (Deccan)	1,690	·223	·100	·123	·164	+·018	·780	91·0	69·3	23·3	108·2	48·1	60·1	82·5	88·4	79·2	+0·7
West Coast	Bombay	37	29·904	29·806	·098	29·852	+·025	·829	86·0	74·4	11·6	94·7	56·1	38·6	80·4	82·4	79·1	−0·1
	Karwar	44	·917	·819	·098	·869	+·029	·847	85·6	72·1	13·5	92·9	56·8	36·1	81·3	84·0	77·8	−0·6
South India	Periyakulam	944	28·997	28·861	1·136	28·943		29·814	93·0	70·2	22·8	101·6	55·0	46·6	84·4	89·2	80·7	
	Salem	940	29·018	·87	·142	·955	+·003	·823	96·5	72·8	23·7	104·7	57·6	47·1	84·3	91·6	81·9	+1·3
	Chitaldroog	2,405	27·593	27·427	·116	27·488	+·012	·795	88·9	67·7	20·8	101·3	56·3	44·8	79·7	85·2	76·5	+1·0
	Bangalore	3,021	26·967	26·853	·114	26·905	+·013	·806	85·5	64·2	21·1	97·5	51·9	45·6	77·0	82·8	73·6	+0·8
	Hassan	3,091	·911	·809	·107	·861	+·026	·822	85·6	62·0	23·6	97·6	46·3	52·5	77·9	84·2	72·5	+1·0
	Mysore	2,518	27·456	27·336	·122	27·401	+·010	·818	87·2	66·0	21·2	100·4	54·6	45·8	78·7	84·3	75·7	+0·6
	Pudukkottai										Imperfect.							
	Madras	22	29·908	29·754	·117	29·854	+·011	·805	91·7	75·3	16·4	108·2	57·4	50·8	86·8	86·3	82·1	+0·7

* Mean of 11 months.

II.

at 64 Stations in India, Burma, etc., in the year 1905.

Temperature, Wet-bulb.				Vapour Tension.					Humidity.					Cloud.				Rainfall.			
Mean minimum.	Mean 10 h.	Mean 16 h.	Mean of three previous columns.	From minimum.	Mean 10 h.	Mean 16 h.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 h.	Mean 16 h.	Mean of daily means.	Departure from normal.	Mean 10 h.	Mean 16 h.	Mean of two previous columns.	Departure from normal.	Total rainfall for the year.	Heaviest rainfall during the year.	Station.	Meteorological Province.
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
74·4	78·6	78·6	77·2	·817	·907	·895	·891	−·012	86	78	75	82	−2	5·6	5·4	5·5	−0·2	101·24	5·41	Port Blair.	Burma Coast and Bay Islands.
70·7	75·5	75·5	73·9	·725	·787	·760	·774	−·021	87	70	64	79	−3	4·8	5·4	5·1	−0·2	104·98	4·60	Rangoon.	
72·0	76·4	76·2	74·9	·733	·832	·813	·808	−·015	81	74	72	78	−3	4·6	4·9	4·8	+0·5	112·31	4·16	Diamond Island.	
73·3	76·6	76·6	75·4	·777	·850	·814	·838	+·003	83	77	76	81	+1	5·4	5·7	5·6	+0·5	83·75	4·15	Cocos Islands.	
	75·0	75·3			·831	·819				81	74			4·1	3·7	3·9	+0·3	225·50	12·34	Akyab.	
65·2†	73·2	73·6	69·8†	·619†	·771	·757	·701†	−·036†	89†	76	71	80†	−1†	4·8	4·3	4·6	−0·3	152·47	10·67	Chittagong.	Bengal and Orissa.
67·6	73·1	73·6	71·4	·683	·799	·722	·734	−·011	89	69	61	75	−1	5·2	5·0	5·1	+0·6	69·76	7·23	Calcutta (Alipore).	
69·9	74·9	75·2	73·3	·728	·815	·801	·796	−·024	86	75	70	78	−2	5·4	5·2	5·3	0	76·49	4·58	Saugor Island.	
69·9	75·1	75·4	73·4	·739	·809	·802	·790	−·021	91	72	71	79	−3	5·6	5·7	5·7	+0·3	51·80	4·57	False Point.	
59·5	64·2	65·1	63·2	·481	·672	·653	·681	−·016	74	50	44	59	0	4·8	5·4	5·1	+0·2	53·11	3·48	Hazaribagh.	Gangetic Plain and Chota Nagpur.
61·7	68·3	70·2	66·8	·548	·574	·559*	·572	+·005	81	52	44	63	+1	3·6	4·0	3·8	+0·3	28·65	3·79	Allahabad.	
54·2	45·0	62·9	59·8	·422	·463	·455	·456	−·011	70	57	50	61	0	3·9	4·6	4·3	+0·3	54·97	3·85	Dehra Dun.	Upper Sub-Himalayas.
57·2	64·6	65·7	62·5	·473	·510	·457	·485	−·013	82	55	41	62	+2	2·5	2·4	2·5	+0·6	21·38	1·77	Roorkee.	
61·6	66·9	68·3	65·6	·538	·545	·505	·542	−·004	76	52	40	59	−1	3·3	3·5	3·4	−0·1	17·66	2·43	Meerut.‡	
58·4	66·5	68·9	64·6	·475	·544	·530	·527	+·036	75	55	43	60	+4	2·4	2·5	2·5	−0·4	17·42	6·61	Lahore.	
59·0	64·3	65·4	62·9	·487	·464	·423	·474	−·032	76	51	35	57	−2	1·7	2·2	2·0	−1·5	16·13	1·80	Ludhiana.	
53·1	62·1	63·4	59·5	·375	·441	·412	·419	−·015	68	47	37	53	−2	2·5	3·5	3·0	−0·2	15·25	1·64	Peshawar.	Indus' Valley and N.-W. Rajputana.
58·4	69·1	70·6	66·1	·451	·540	·504	·509	+·029	67	43	34	50	+4	1·4	1·4	1·4	+0·5	2·21	0·42	Jcobabad.	
65·6	70·9	72·8	69·8	·616	·653	·701	·682	−·015	77	58	59	70	−1	4·0	3·8	3·9	+0·9	3·62	0·86	Kurrachee.	
57·2	64·9	66·2	62·8	·400	·439	·394	·418	−·047	57	39	28	45	−8	2·7	3·3	3·3	−0·4	4·73	0·83	Jaipur.	Eastern Rajputana, Central India and Gujarat.
59·0	68·0	70·9	65·9	·472	·567	·602	·551		72	52	47	58		2·6	2·9	2·8		17·43	3·26	Udaipur.	
59·6	67·5	68·5	65·2	·465	·475	·39	·449	−·023	61	39	26	43	−3	2·9	2·7	2·8	+0·5	19·71	7·06	Deesa.	
63·4	69·7	70·1	67·7	·562	·573	·539	·578		73	48	41	58		2·4	2·1	2·3		6·73	1·33	Jamnagar.	
60·3	65·7	67·3	64·6	·512	·498	·492	·511	−·022	85	53	48	66	−2	4·5	5·0	4·8	−0·2	28·74	1·64	Belgaum.	Deccan.
60·1	66·2	69·2	64·8	·440	·461	·429	·456	−·042	59	40	31	46	−6	3·8	5·2	4·5	+0·2	12·79	1·67	Sholapur.	
58·9	68·6	70·3	65·9	·449	·520	·476	·485	−·011	63	44	34	49	−3	3·3	4·3	3·8	0	19·19	3·03	Akola.	
58·0	65·1	66·2	63·1	·398	·459	·425	·430	−·024	57	44	36	46	−4	2·9	3·8	3·4	−0·5	26·03	2·61	Buldana.	
56·6‡	66·0*	67·7*	62·4‡	·434‡	·475*	·424*	·443‡	−·053‡	69‡	43*	32*	52‡	−6‡	2·3	2·8	2·6	−0·9	27·70	5·95	Khandwa.	
60·8	67·9	69·5	66·1	·480	·527	·491	·566	−·025	66	47	37	52	−3	3·1	4·5	3·8	−0·7	51·24	6·10	Nagpur.	
60·9	68·0	69·6	66·1	·482	·519	·489	·503		67	46	37	52		3·1	4·4	3·8		51·16	5·69	Nagpur (Sany. Commr.'s Office).	
58·2	69·4	70·5	61·9	·494	·565	·534	·560	−·021*	68	51	41	52	−3*	2·7	4·9	4·3	+0·2	23·52	2·68	Hyderabad (Deccan).	
71·0*	73·3	74·7	73·4*	·722*	·744	·769	·775*	−·035*	80*	70	68	76*	−3*	4·1	3·8	4·0	+0·2	33·66	3·24	Bombay.	West Coast.
69·5	73·9	75·4	72·9	·698	·744	·772	·752	−·025	87	69	67	77	−2	2·5	3·0	2·8	−0·9	33·06	5·36	Karwar.	
67·2	72·6	73·4	71·1	·633	·648	·615	·629		85	55	46	60		3·5	5·7	4·6		31·20	3·77	Periyakulam.	South India.
69·5	75·0	77·3	73·7	·690	·750	·759	·743	+·036	86	63	52	69	−1	4·3	6·1	5·2	+0·3	23·89	2·00	Salem.	
63·1	68·4	69·4	67·0	·534	·561	·528	·551	+·020	78	56	45	62	+1	3·9	4·6	4·3	−0·8	16·26	1·91	Chitaldroog.	
62·1	67·1	67·5	65·5	·538	·555	·499	·541	−·001	88	60	46	67	−1	4·4	5·0	4·7		35·06	3·88	Bangalore.	
60·5	67·1	67·4	65·0	·521	·545	·519	·538	+·006	92	58	51	69	0	5·3	6·4	5·9	−0·3	24·09	2·25	Hassan.	
63·9	68·3	69·0	67·1	·577	·569	·522	·556	+·009	89	58	46	67	0	5·2	6·6	6·4	+0·3	20·89	2·26	Mysore.	
															Imperfect.					Pudukkottai.	
	76·7	77·1	75·7		·788	·813	·811	+·002		62	65	74	−3	4·6	4	4·7	−0·1	42·72	5·05	Madras.	

† Mean of 10 months. ‡ Mean of 9 months.

Table

Abstract of Observations recorded at 10 h. and 16 h.

Meteorological Province.	Station.	Elevation of bar-cistern above sea-level in feet.	Pressure.						Temperature of air.									
			Mean of 10 h.	Mean of 16 h.	Mean daily range.	Mean of daily mean pressure.	Departure from normal.	Mean reduced to S. L. and gravity 45° Lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 h.	Mean 16 h.	Mean of daily mean.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
South India—*concld.*	Bellary	1,475	28·146	28·311	·135	28·380	−·002	29·783	94·4	71·2	23·2	107·0	58·2	53·9	66·0	90·6	81·7	+1·0
	Waltair	196	29·677	29·568	·109	29·620	+·023	·780	86·7	75·0	11·7	104·9	62·9	42·0	83·6	83·2	79·8	−0·6
Hill Station, Baluchistan.	Quetta	5,502	24·635*	24·563*	·072	24·592*		25·552*	71·7	43·4	28·3	99·1	8·6	90·5	64·4	68·0	57·3	
Hill Stations, Northern India.	Leh	11,509	19·679	19·587	·092	19·634	−·029	19·602	52·0	27·9	24·1	82·4	−8·1	90·3	42·5	42·8	38·3	−2·7
	Srinagar	5,204	24·888	24·803	·085	24·842	−·015	24·813	65·2	44·1	21·1	96·3	18·1	78·7	54·8	62·9	53·0	−0·3
	Sarsiu	...	23·146	23·090	·056	23·110			59·9	41·2	18·7	79·6	9·8	69·8	55·2	53·9	50·4	
	Kalabagh								Imperfect.									
	Simla (Ridge)	7,224	23·103	23·055	·048	23·071	−·012	23·033	53·8	37·6	11·2	80·4	18·2	62·2	54·2	55·8	53·2	−1·9
	Chakrata	7,022	·272	·227	·045	·243	−·009	·203	61·9	37·6	14·1	82·6	19·4	63·2	56·8	58·7	54·6	−2·1
	Ranikhet	6,069	24·092	24·025	·067	24·051	−·008	24·010	65·2	51·2	14·1	87·3	22·4	64·9	60·2	61·4	58·0	−2·4
	Muktesar	7,600	22·822	22·761	·061	22·784		22·742	60·9	46·5	14·4	81·5	17·9	63·6	54·1	57·2	53·1	
	Katmandu	4,338	25·634	25·531	·103	25·580	+·014	25·534	76·9	53·3	21·6	92·4	27·2	65·2	65·9	70·9	63·6	−0·7
	Darjeeling	7,376	22·993	22·955	·038	22·971	−·019	22·923	57·7	46·3	11·4	72·6	22·8	49·8	54·0	55·5	51·3	−0·3
Hill Stations, Central India.	Mount Abu	3,945	26·052	25·984	·068	26·013	+·005	25·964	74·6	51·3	13·3	97·7	32·0	65·7	59·9	72·4	67·3	−1·5
	Pachmarhi	3,528	·331†	25·267†	·064	·283†	−·001†	26·230†	80·1	59·6	20·5	103·2	31·3	71·9	72·5	77·3	69·7	−0·3
	Chikalda	3,642	·314	·253	·061	·294	−·003	·238	79·9	62·7	17·2	101·0	40·9	60·1	73·0	77·3	71·0	−0·6
Hill Stations, South India.	Kodaikanal	7,688	22·860	22·792	·068	22·824		22·760	65·1	51·1	14·0	74·7	39·3	34·9	61·5	59·6	57·3	
	Ootacamund	7,329	23·067	23·003	·064	23·035		·969	66·0	49·6	16·4	76·6	28·1	42·5	62·6	61·1	57·6	
	Dodabetta	8,539	22·064	22·007	·057	22·032		21·969	58·9	47·4	11·5	70·2	38·3	31·9	56·3	54·9	52·9	
Extra India	Aden	94	29·852	29·734	·118	29·789		29·814	89·11	78·6	10·5	97·1	64·5	32·6	85·2	87·0	83·51	
	Perim	291	·725	·612	·113	·665		·738	89·3	80·2	9·7	100·3	69·2	31·1	86·1	87·4	84·2	
	Minicoy*	7	·973	·907	·066	·944		·877	86·7			93·3			84·2	83·7		
	Zanzibar	72	·979*	·877	·102	·927*		·926*	84·8	76·5	8·3	91·7	69·9	21·8		83·8	79·3	
	Port Victoria (Seychelles).	15	·960	·904	·056	·953		·892	83·8	77·8	6·0	88·8	72·4	17·0	81·8	82·6	79·6	
	Mauritius (Pamplemousses).	181				·879		30·007				89·0	52·3	36·7			73·5	

* Mean of 11 months. † Mean of 6 months. N.B.—Elevations in italics indicate barometrical determination.

II—*concld.*

at 64 Stations in India, Burma, etc., in the year 1905—concld.

Temperature, Wet-bulb.				Vapour Tension.					Humidity.					Cloud.				Rainfall.		Station.	Meteorological Provinces.
Mean minimum.	Mean 10 h.	Mean 16 h.	Mean of three previous columns.	From minimum.	Mean 10 h.	Mean 16 h.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 h.	Mean 16 h.	Mean of daily means.	Departure from normal.	Mean 10 h.	Mean 16 h.	Mean of two previous columns	Departure from normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
63·9	70·9	72·3	69·0	·519	·608	·572	·576	−·029	66	52	41	53	0	4·2	5·1	4·7	−0·8	16·98	2·30	Bellary.	South India—*concld.*
70·2	73·9	72·5	73·0	·695	·721	·748	·738	−·023	73	62	65	71	+1	5·7	5·9	5·8	+1·5	33·88	9·16	Waltair.	
39·6	49·1	50·2	46·3	·224	·217	·202	·215		76	40	35	52		1·9	2·8	2·4		15·05	1·22	Quetta . .	Hill Station, Baluchistan.
28·7	32·7	37·0	32·8	·123	·136	·155	·137	+·002	64	42	39	50	−1	4·7	6·0	5·4	−0·2	3·99	0·54	Leh . .	Hill Stations, Northern India.
41·8	51·2	57·8	50·3	·276	·393	·497	·382	−·001	85	80	75	80	0	4·4	5·1	4·8	+0·3	26·46	2·26	Srinagar.	
	46·2	46·4			·247	·269				54	62			4·4	4·9	4·7		61·38	5·03	Sarain.	
																				Kalaghgi.	
42·1	46·3	48·1	45·5	·237	·260	·287	·262	−·021	57	57	61	63	+2	4·9	5·4	5·2	0	51·10	3·46	Simla (Ridge).	
43·4	49·1	49·7	47·4	·262	·298	·312	·293	−·010	73	61	53	67	+3	4·0	5·2	4·6	0	67·96	4·77	Chakrata.	
47·2	52·1	52·8	50·7	·310	·337	·343	·331	−·012	77	61	59	67	+2	4·1	4·7	4·4	0	43·29	1·74	Ranikhet.	
42·0	47·3	49·6	46·3	·247	·284	·305	·281		72	63	62	67		5·1	5·9	5·5		43·09	3·01	Muktesar.	
52·1	59·0	61·0	57·4	·425	·458	·455	·447	−·003	93	67	57	72	+1	3·7	4·9	4·3	−0·3	53·60	2·00	Katmandu.	
45·0	51·5	53·1	50·2	·310	·380	·404	·365	+·010	90	76	66	88	+2	6·5	7·2	6·9	+0·2	251·22	6·58	Darjeeling.	
52·0	57·2	58·2	56·1	·331	·423	·386	·382	−·023	58	47	43	58	−1	3·1	3·6	3·6	+0·1	38·48	3·85	Mount Abu .	Hill Stations Central India.
53·6	59·4	61·6	58·2	·373	·372	·378	·376	−·046	69	47	42	55	−5	3·1	3·7	3·4	−1·0	79·03	3·09	Pachmarhi.	
55·5	60·5	62·5	59·5	·382	·400	·405	·396	−·031	64	50	45	56	−4	3·3	4·4	4·1	−0·5	54·32	5·28	Chikalda.	
46·6	54·1	55·4	52·0	·280	·351	·400	·342		74	65	79	73		4·7	7·1	5·9		59·96	3·90	Kodaikanal .	Hill Stations South India.
46·2	53·3	54·4	51·5	·281	·329	·358	·324		78	59	67	68		5·0	6·3	5·9		51·54	4·29	Ootacamund.	
	50·4	50·9			·312	·335				69	77			5·4	5·6	6·0		53·45	4·08	Dodabetta.	
73·5‡	76·5	76·1	76·3‡	·795‡	·893	·759	·816‡		80‡	74	59	72‡		2·6	0·7	1·3		6·01	1·97	Aden . .	Extra-Indian.
71·6	76·9	77·4	75·3	·672	·810	·818	·792		64	64	62	64		1·0	0·7	0·9		2·83	0·94	Perim.	
	77·2	77·0			·833	·837				72	73			4·5	5·0	4·8		62·00	4·43	Minicoy.	
73·2		76·7		·779		·823			85		72				4·8			73·71	5·21	Zanzibar.	
73·1	76·2	76·5	75·2	·760	·834	·836	·823		79	76	75	79		6·0	6·2	6·1		93·55	4·20	Port Victoria (Seychelles).	
			69·4				·656					79						62·75	4·78	Mauritius (Pamplemousses).	

Note.—The barometric readings are not reduced to sea-level in the cases of hill or plateau stations, the elevations of which exceed 3,200 feet.

‡ Mean of 9 months.

G. I. C. P. O.—No. 401 Meteor.—3-4-06.—600.

Corrigenda in India Monthly Weather Reviews for the year 1905.

TEXT.

Page.	Column.	Part.	Correction.
15	...	January, 1905	*For* "84·4, 66·3, 77·1, 20·7, 29·6, —0·9, +0·7 and —1·6" *read* "86·6, 69·2, 73·9, 17·4, 26·2, —1·1, —0·1 and —1·0" respectively, against Tenasserim in the figure columns 1, 2, 3, 4, 5, 6, 7 and 8 of the 2nd tabular statement.
15	...	Ditto	*For* "80·2, 53·5, 66·9, 26·7, and 37·3" *read* "79·2, 52·7, 66·0, 26·5 and 37·2" respectively, against Upper Burma in the figure columns 1, 2, 3, 4 and 5 of 2nd tabular statement.
15	...	Ditto	*For* "52·9, 63·9, 22·0, —0·6, and —1·3." *read* "52·8, 63·8, 22·1, —0·9 and —1·0" respectively, against Eastern Bengal in the figure columns 2, 3, 4, 7 and 8 of the 2nd tabular statement.
15	...	Ditto	*For* "59·8, 19·4, +0·4 and —2·6" *read* "59·7, 19·5, +0·2 and —2·4" respectively, against Orissa in the figure columns 2, 4, 7 and 8 of the 2nd tabular statement.
15	...	Ditto	*For* "42·7, 51·8, 18·2, +2·0 and —10·1" *read* "42·3, 51·6, 18·6, +2·6 and —9·7" respectively, against Punjab (Central) in the figure columns 2, 3, 4, 7 and 8 of the 2nd tabular statement.
16	...	Ditto	*For* "39·5, 50·1, 21·1, —0·5 and —5·2" *read* "38·9, 49·8, 21·7, —1·1 and —4·6" respectively, against North-West Frontier Province in the figure columns 2, 3, 4, 7 and 8 of the 1st tabular statement.
18	2	Ditto	*For* "a deepish" *read* "a fairly deep" in the 1st line of para. 1.
29	...	Ditto	*For* "2·3" *read* "2·8" against United Provinces (East) in the figure column 1 of the 2nd tabular statement.
29	...	Ditto	*For* "3·0, 1·23 and +0·65" *read* "3·2, 1·33 and +0·75" respectively, against United Provinces (West) in the figure columns 1, 3 and 5 of the 2nd tabular statement.
29	...	Ditto	*For* "5·2" *read* "5·1" against United Provinces (West Submontane) in the figure column 1 of the 2nd tabular statement.
29	...	Ditto	*For* "7·0, 3·96 and +1·65" *read* "7·1, 3·95 and +1·64" respectively, against United Provinces (hills) in the figure columns 1, 3 and 5 of the 2nd tabular statement.
41	2	February, 1905	*For* "contantly" *read* "constantly" in the 14th line of the solar and magnetic disturbances.
50	...	Ditto	*For* "78·7, 61·0, 69·9, 17·7, —7·4, —4·1 and —3·3" *read* "78·9, 61·4, 70·2, 17·5, —7·1, —3·6 and —3·5 respectively, against Orissa in the figure columns 1, 2, 3, 4, 6, 7 and 8 of the 3rd tabular statement.
51	...	Ditto	*For* "53·1, 31·5, —6·6, and +0·7," *read* "53·0, 31·4, —6·7, and +0·8" respectively, against Berar in the figure columns 2, 4, 7 and 8 of the 1st tabular statement.
51	...	Ditto	*For* "—1·6" *read* "—1·7" against West Coast in the figure column 2 of the 2nd tabular statement.
61	...	Ditto	*For* "0·73 and —1·12" *read* "0·72 and —1·11" respectively, against Assam (Surma) in the figure columns 3 and 5 of the tabular statement.
61	...	Ditto	*For* "0·67 and +0·30" *read* "0·68 and +0·31" respectively, against United Provinces (Central) in the figure columns 3 and 5 of the tabular statement.
61	...	Ditto	*For* "1·0, 0·94, 0·50 and +0·44" *read* "1·1, 0·95, 0·56 and +0·39" respectively, against United Provinces (West) in the figure columns 2, 3, 4 and 5 of the tabular statement.
61	...	Ditto	*For* "4·5, 2·32 and +1·06" *read* "4·4, 2·29 and +1·03" respectively, against United Provinces (West Submontane) in the figure columns 1, 3 and 5 of the tabular statement.

Corrigenda in India Monthly Weather Reviews for the year 1905—*contd.*

TEXT.

Page.	Column.	Part.	Correction.
61	...	February, 1905.	*For* "2·80 and +0·29" *read* "2·81 and +0·30" respectively, against United Provinces (hills) in the figure columns 3 and 5 of the tabular statement.
80	...	March, 1905	*For* "+0·1 and —3·5" *read* "0 and —3·4" respectively, against Orissa in the figure columns 7 and 8 of the tabular statement.
80	...	Ditto	*For* "70·3, 59·6, 21·3, —9·6 and —4·8" *read* "70·5, 59·7, 21·5, —9·4 and —4·6" respectively, against North-West Frontier Province in the figure columns 1, 3, 4, 6 and 8 of the tabular statement.
80	...	Ditto	*For* "65·7, 27·1, —0·4 and +0·8" *read* "65·8, 27·0, —0·3 and +0·7" respectively, against Mysore in the figure columns 2, 4, 7 and 8 of the tabular statement.
80	...	Ditto	*For* "61·2, 22·2, —2·1 and —4·6" *read* "61·1, 22·3, —2·2 and —4·5" respectively, against Sind in the figure columns 2, 4, 7 and 8 of the tabular statement.
80	...	Ditto	*For* "—2·5 and +5·0" *read* "—2·6 and —4·9" respectively, against Rajputana, (East) and Central India, (West), in the figure columns 7 and 8 of the tabular statement.
81	2	Ditto	*For* "—2·1" *read* "—2·2" against West Coast in the figure column 2 of the 1st tabular statement.
90	...	Ditto	*For* "0·05 and —0·12" *read* "0·06 and —0·11" respectively, against Lower Burma (Deltaic) in the figure columns 3 and 5 of the tabular statement.
90	...	Ditto	*For* "8·5, 4·53 and +0·95" *read* "8·7, 4·54 and +0·56" respectively, against Assam (Brahmaputra) in the figure columns 1, 3 and 5 of the tabular statement.
90	...	Ditto	*For* "2·6" *read* "2·7" against United Provinces (East) in the figure column 1 of the tabular statement.
90	...	Ditto	*For* "2·6, 0·82 and +0·42" *read* "2·7, 0·83 and +0·43" respectively, against Oudh (North) in the figure columns 1, 3 and 5 of the tabular statement.
90	...	Ditto	*For* "0·43, 0·35 and +0·08" *read* "0·45, 0·34 and +0·11" respectively, against United Provinces (West) in the figure columns 3, 4 and 5 of the tabular statement.
90	...	Ditto	*For* "1·18 and +0·48" *read* "1·20 and +0·50" respectively, against United Provinces (Submontane West) in the figure columns 3 and 5 of the tabular statement.
91	...	Ditto	*For* "0·43 and +0·25" *read* "0·48 and +0·30" respectively, against East Coast (Central) in the figure columns 3 and 5 of the 1st tabular statement.
107	2	April, 1905	*For* "—·007 and +·068" *read* "—·015 and +·076" respectively, against Leh and Lahore in the figure columns 1 and 3 of the tabular statement.
110	...	Ditto	*For* "—2·4 and —1·9" *read* "—2·5 and —1·8" respectively, against Orissa in the figure columns 7 and 8 of the tabular statement.
110	...	Ditto	*For* "—6·1 and —1·3" *read* "—6·2 and —1·4" respectively, against Central Bengal in the figure columns 6 and 8 of the tabular statement.
110	...	Ditto	*For* "94·8, 22·1, —6·4 and —0·8" *read* "94·9, 27·2, —6·3 and —0·7" respectively, against Chota Nagpur in the figure columns 1, 4, 6 and 8 of the tabular statement.
110	...	Ditto	*For* "68·7, 26·4, —5·8 and —1·6" *read* "68·8, 26·5, —5·7 and —1·7" respectively, against South Bihar in the figure columns 2, 4, 7 and 8 of the tabular statement.
110	...	Ditto	*For* "46·8" *read* "46·5" against North Bihar in the figure column 5 of the tabular statement.
110	...	Ditto	*For* "37·5, 45·7, 16·4, —5·0 and +1·6" *read* "37·4, 45·6, 16·5, —5·3 and +1·9" respectively, against Bengal Hills in the figure columns 2, 3, 4, 7 and 8 of the tabular statement.
110	...	Ditto	*For* "—4·3 and 0" *read* "—4·2 and +0·1" respectively, against North-West Frontier Province in the figure columns 6 and 8 of the tabular statement.

Corrigenda in India Monthly Weather Reviews for the year 1905—*contd.*

TEXT.

Page.	Column.	Part.	Correction.
110	...	April, 1905	*For* "68·3, 30·7, 45·6, —3·6 and +2·0" *read* "68·2, 30·8, 46·1, —3·7 and +2·1" respectively, against Bombay Deccan in the figure columns 2, 4, 5, 7 and 8 of the tabular statement.
110	...	Ditto	*For* "101·0, 85·9, 30·3, —4·0 and +0·4" *read* "100·9, 85·8, 30·2, —4·1 and +0·3" respectively, against Central Provinces (West) in the figure columns 1, 3, 4, 6 and 8 of the tabular statement.
113	2	Ditto	*For* "Might" *read* "Night" in the second line of para. 1.
115	2	Ditto	*For* "S 63°" *read* "S 63° E" in the last line of second column.
120	...	Ditto	*For* "1·8, 1·22 and —0·22", *read* "2·1, 1·40 and —0·04" respectively, against Arakan in the figure columns 1, 3 and 5 of the second tabular statement.
120	...	Ditto	*For* "8·24 and +0·16" *read* "8·25 and +0·11" respectively, against Assam (Brahmaputra) in the figure columns 3 and 5 of the second tabular statement.
138	...	May, 1905	*For* "23·7, 25·6, —0·2 and —0·7" *read* "73·8, 25·4, 0 and —0·9" respectively, against United Provinces (Sub-montane West) in the figure columns 2, 4, 7 and 8 of the tabular statement.
138	...	Ditto	*For* "—1·1" *read* "+1·1" against Madras (South Central) in the figure column 7 of the tabular statement.
138	...	Ditto	*For* "29·8, 93·6, 29·5, +3·4, +1·4 and +2·9" *read* "79·7, 93·5, 27·6, +3·5, +1·3 and +2·2" respectively, against Sind in the figure columns 2, 3, 4, 6, 7 and 8 of the tabular statement.
149	...	Ditto	*For* "11·7, 11·75 and —0·19" *read* "11·6, 11·74 and —0·20" respectively, against Lower Burma (Deltaic) in the figure columns 1, 3 and 5 of the tabular statement.
168	...	June, 1905	*For* "79·3, +1·7 and +1·0" *read* "79·4, +1·8 and +0·9" respectively, against United Provinces (Submontane West) in the figure columns 2, 7 and 8 of the tabular statement.
168	...	Ditto	*For* "83·7, 96·3, 25·2, +4·4 and —2·9" *read* "83·9, 96·4, 25·0, +4·6 and —3·1" respectively, against Punjab (Central) in the figure columns 2, 3, 4, 7 and 8 of the tabular statement.
169	1	Ditto	*For* "+3·0 and +4·5" *read* "+3·1 and +3·9" respectively, against Upper Sub-Himalayas in the figure columns 2 and 3 of the tabular statement.
169	1	Ditto	*For* "+0·6" *read* "+0·5" against West Coast in the figure column 2 of the tabular statement.
190	2	July, 1905	In the second tabular statement between dates "6th and 11th" *insert* "9th, 9—47·6, ..., ..., 23—10·5, ..., 3—52·9, Ditto (*a*)" in columns 1 to 8, respectively.
190	2	Ditto	In the second tabular statement after date "16th" *insert* "21st, 10—45·7, ..., 12—26·4, 11—36·5, 1·00, 0—36·8, Ditto" in columns 1 to 8, respectively. "23rd, 2—53·3, ..., ?, 6—56·4, ?, 4—3·1, Ditto (*a*)" in columns 1 to 8, respectively.
190	2	Ditto	Below the second tabular statement *insert* note "(*a*) As the boom went out of range, the time of the maximum displacement and the maximum amplitude cannot be determined."
190	2	Ditto	In the third tabular statement between dates "6th and 11th" *insert* "9th, 15—40·9," in columns 1 and 2, respectively.
190	2	Ditto	In the third tabular statement after date "17th" *insert* "21st, 16—39·0" in columns 1 and 2, respectively. "23rd, 8—46·6" ditto ditto,
197	...	Ditto	*For* "98·8, 90·0, 17·8, +2·5, +2·3 and +0·2" *read* "99·1, 90·1, 18·0, +2·8, +2·2 and +0·6" respectively, against Punjab (Submontane) in the figure columns 4, 5, 6, 7 and 8 of the tabular statement.

Corrigenda in India Monthly Weather Reviews for the year 1905—*contd.*

TEXT.

Page.	Column.	Part.	Correction.
197	...	July, 1905	*For* "92·7, 19·5, +2·1 and +0·7" *read* "92·8, 19·6, +2·3 and +0·9" respectively, against Madras (South Central) in the figure columns 1, 4, 6 and 8 of the tabular statement.
197	...	Ditto	*For* "84·7, 77·9, 13·7, +1·3 and +0·3" *read* "84·6, 77·8, 13·6, +1·2 and +0·2" respectively, against Bombay Deccan in the figure columns 1, 3, 4, 6 and 8 of the tabular statement.
197	...	Ditto	*For* "101·5, 83·2, 18·4, +2·4, +1·3 and +1·1" *read* "101·6, 83·1, 18·5, +2·5, +1·2 and +1·3" respectively, against Sind in the figure columns 1, 2, 4, 6, 7 and 8 of the tabular statement.
207	...	Ditto	*For* "26·4, 25·9, 27·93, 24·25 and +3·68" *read* "26·5, 25·8, 27·95, 24·12 and +3·83" respectively, against Lower Burma (Deltaic) in the figure columns 1, 2, 3, 4 and 5 of the second tabular statement.
225	1	August, 1905	*For* "+·102" *read* "+·012" against Quetta in the figure column 1 of the 1st tabular statement.
227	...	Ditto	*For* "88·1, 82·9, 10·2, —1·8 and —1·5" *read* "87·9, 82·8, 10·2, —2·0 and —1·7" respectively, against North Oudh in the figure columns 1, 3, 4, 6 and 8 of the tabular statement.
227	...	Ditto	*For* "97·9, 89·2, 17·5, +3·8 and +0·9" *read* "98·2, 89·3, 17·8, +4·1 and +1·2" respectively, against Punjab (Submontane) in the figure columns 1, 3, 4, 6 and 8 of the tabular statement.
227	...	Ditto	*For* "82·0, 92·7, 21·4, +2·6 and +0·6" *read* "82·1, 92·8, 21·3, +2·7 and +0·5" respectively, against North-West Frontier Province in the figure columns 2, 3, 4, 7 and 8 of the tabular statement.
252	2	September, 1905	*For* "—·001 and 0" *read* "+·003 and —·004" respectively, against Wellington and Coimbatore in the figure columns 1 and 3 of the second tabular statement.
256	...	Ditto	*For* "+0·4 and —2·0" *read* "+0·3 and —1·9" respectively, against Chota Nagpur in the figure columns 7 and 8 of the third tabular statement.
256	...	Ditto	*For* "95·7, 21·1, +1·2 and —0·6" *read* "95·8, 21·2, +1·3 and —0·5" respectively, against Punjab (Submontane) in the figure columns 1, 4, 6 and 8 of the third tabular statement.
257	...	Ditto	*For* "97·7, 87·0, 21·7, +1·3 and +1·5" *read* "98·1, 87·2, 21·9, +1·5 and +1·7" respectively, against Sind in the figure columns 1, 3, 4, 6 and 8 of the first tabular statement.
268	...	Ditto	*For* "10·8, 12·19 and +4·02" *read* "10·9, 12·32 and +4·15" respectively, against Central Provinces (Central) in the figure columns 1, 3 and 5 of the tabular statement.
290	...	October, 1905	*For* "65·9, 29·4, 27·1, —2·2 and +4·9" *read* "66·0, 29·5, 26·9, —1·9 and +4·6" respectively, against Berar in the figure columns 2, 3, 4, 7 and 8 of the first tabular statement.
290	...	Ditto	*For* 68·3, 83·3, 30·0, +0·3 and +2·8" *read* "68·3, 83·8, 29·9, +0·5 and +2·6" respectively, against Sind in the figure columns 2, 3, 4, 7 and 8 of the first tabular statement.
315	2	November, 1905	*For* "—·0" *read* "—·04" against Bengal and Orissa in the figure column 2 of the first tabular statement.
315	...	Ditto	*For* "82·9, 70·3, 25·3, +1·9 and +2·0" *read* "82·8, 70·2, 25·2, +1·7 and +1·8" respectively, against Chota Nagpur in the figure columns 1, 3, 4, 6 and 8 of the second tabular statement.

Corrigenda in India Monthly Weather Reviews for the year 1905—*contd.*

TEXT.

Page.	Column.	Part.	Correction.
338	2	December, 1905	*For* "47·6 and +3·6" *read* "48·2 and +4·2" respectively, against Jacobabad in the figure columns 1 and 3 of the second tabular statement.
341	...	Ditto	*For* "+0·2 and +2·0" *read* "+0·1 and +1·9" respectively, against Orissa in the figure columns 6 and 8 of the tabular statement.
341	...	Ditto	*For* "83·2, 70·0, 26 6, +3·2 and +5·6" *read* "83·4, 70·1, 26·7, +3·3 and +5·3" respectively, against Mysore in the figure columns 1, 3, 4, 6 and 8 of the tabular statement.
341	...	Ditto	*For* "+0·7 and +3·2" *read* "+0·8 and +3·3" respectively, against Berar in the figure columns 6 and 8 of the tabular statement.
341	...	Ditto	*For* "54·2, 25·5, +3 4 and —2·4" *read* "54 3, 25·4, +3·6 and —2·6" respectively, against Sind in the figure columns 2, 4, 7 and 8 of the tabular statement.
352	...	Ditto	*For* "0·98 and +0·63" *read* "1·08 and +0·73" respectively, against Assam Sarma in the figure columns 3 and 5 of the tabular statement.

Corrigenda in India Monthly Weather Reviews for the year 1905—*continued.*

TABLES I AND II.

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
ii	January . .	I	Barisal . . .	Temperature of air .	15, 16, 17, 18, 19, 22 and 24.	*For* "52·9, —1·5, 64·4, —3·6, 23·0, 43·7 and 36·6" *read* "55·6, +1·2, 65·3, —0·3, 20·3, 46·4, and 33·9" respectively.
v	Do. . .	I	.....	Rainfall . .	53	*For* "Departure from normal of period 1st December 1904 to 31st January 1904" *read* "Departure from normal of period 1st December 1904 to 31st January 1905".
viii	Do. . .	I	Nagpur . .	Temperature of air .	13, 14, 17, 18, 19, 20 and 24.	*For* "83·5, 0, 69·3, —0·4, 28·6, 89·6 and 42·4" *read* "82·3, —0·6, 69·0, —0·1, 28·0, 89·0 and 41·8" respectively.
ix	Do. . .	I	Ahmednagar . .	Rainfall . .	49 and 50	*For* "0·01 and —0·01" *read* "0 and 0" respectively.
xiii	Do. . .	I	Baghdad . .	Wind velocity .	37	*For* "—5·2" *read* "—52".
xiii	Do. . .	I	Kabul . . .	Rainfall . .	48, 50, 51, 53 and 54.	*For* "0, —1·24, 0·32, —1·21, and 0" *read* "1·78, +0·54, 2·10, +0·57 and 6·95" respectively.
xvi	Do. . .	II	Nagpur . . .	Temperature of air .	9, 11, 12, 14, 17 and 18.	*For* "83·4, 28·4, 89·4, 42·5, 68·4 and —0·4" *read* "82·8, 27·8, 88·8, 41·9, 68·1, and —0·7" respectively.
xxii	February .	I	Barisal . . .	Do. .	15, 16, 17, 18, 19, 22 and 24.	*For* "52·0, —7·7, 63·5, —7·2, 23·0, 42·4 and 41·9" *read* "54·7, —5·0, 64·9, —5·9, 20·3, 45·1 and 39·2" respectively.
xxv	Do. . .	I	Balasore . .	Rainfall . .	50	*For* "—0·50" *read* "—0·48".
xxv	Do. . .	I	Cuttack . .	Hygrometry 8 A.M. .	39, 40, 41 and 42.	*For* "69, —9, ·458 and —·104" *read* "71, —7, ·506 and —·056" respectively.
xxviii	Do. . .	I	Nagpur . . .	Temperature of air .	13, 14, 17, 18, 19, 20 and 24.	*For* "84·2, +3·2, 69·3, —3·4, 29·9, 90·1 and 51·5" *read* "83·6, —3·7, 69·0, —5·7, 29·3, 96·5 and 50·9" respectively.
xxviii	Do. . .	I	West Coast . .	Do. .	16	*For* "—1·6" *read* "—1·7".
xxxii	Do. . .	I	Punga . . .	Elevation . .	3	*For* "15" *read* "154".
xxxii	Do. . .	I	Shillong . .	Do. .	3	*For* "4900" *read* "4920."
xxxiii	Do. . .	I	Kabul . . .	Rainfall . .	48, 50, 51, 53 and 54.	*For* "0, —0·98, 0·32, —2·19 and 0" *read* "0·85, —0·13, 2·95, +0·44 and ?" respectively.
xxxvi	Do. . .	II	Nagpur . . .	Temperature of air .	9, 11, 12, 14, 17, and 18.	*For* "84·5, 30·0, 97·2, 31·8, 69·1, and —5·2" *read* "83·9, 29·4, 96·6, 51·2, 68·8 and —5·5" respectively.
xlii	March . .	I	Barisal . . .	Do. .	15, 16, 17, 18, 19, 22 and 24.	*For* "64·8, —4·4, 74·4, —4·9, 19·1, 58·2 and 34·1" *read* "67·3, —1·7, 75·8, —3·6, 16·4, 60·9 and 31·4" respectively.
xliv	Do. . .	I	Gangetic Plain and Chota Nagpur.	Station . . .	2	*For* Ganetic" *read* "Gangetic".
xlviii	Do. . .	I	Nagpur . .	Temperature of air .	13, 14, 17, 18, 19, 20 and 24.	*For* 95·5, —2·8, 81·0, —2·1, 29·1, 102·6 and 44·4" *read* "94·9, —3·4, 80·7, —2·4, 28·5, 102·0 and 43·8" respectively.
xlviii	Do. . .	I	West Coast . .	Do. .	16	*For* "—2·1" *read* "—2·2".
liii	Do. . .	I	Aden . . .	Rainfall . .	48, 50, 51, 53 and 54.	*For* 0·21, —0·66, 1·98, +0·13 and 0·18" *read* "1·99, +1·40, 3·74, +1·89 and 1·65" respectively.
liii	Do. . .	I	Kabul . . .	Do. . .	48, 50, 51 and 53.	*For* "3·42, —1·48, 3·74 and —3·67" *read* "4·39, —0·51, 7·34 and —0·07" respectively.
lvi	Do. . .	II	Nagpur . . .	Temperature of air .	9, 11, 12, 14, 17 and 18.	*For* "95·6, 29·1, 102·6, 44·2, 80·4 and —2·0" *read* "95·0, 28·5, 102·0, 43·6, 80·1 and —2·3" respectively.

Corrigenda in India Monthly Weather Reviews for the year 1905—*continued*.

TABLES I AND II.

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
lix	March	II	Leh	Rainfall	52	*For* "0·90" *read* "0·89".
lix	Do.	II	Chakrata	Do.	52	*For* "5·74" *read* "5·78".
lxii	April	I	Barisal	Temperature of air	15, 16, 17, 18, 19, 22 and 24.	*For* "68·6, —6·1 ?, 78·4, —5·4 ?, 19·6, 59·7 and 33·1" *read* "71·3, —4·1, 79·8, —4·1, 16·9, 62·4 and 30·4" respectively.
lxviii	Do.	I	Sholapur	Pressure	6	*For* "27·861" *read* "29·861".
lxviii	Do.	I	Do.	Temperature of air	22 and 24	*For* "58·6 and 46·7" *read* "56·6 and 48·7" respectively.
lxviii	Do.	I	Deccan	Do.	24	*For* "49·3" *read* "49·4".
lxviii	Do.	I	Amraoti	Pressure	4	*For* "28·683" *read* "28·683 ?".
lxviii	Do.	I	Khandwa	Do.	6	*For* "28·857" *read* "29·857".
lxviii	Do.	I	Nagpur	Temperature of air	13, 14, 17, 18, 19, 20 and 24.	*For* "101·0, —4·5, 86·1, —4·8, 29·9, 111·2 and 54·0" *read* "100·4, —5·1, 85·8, —5·1, 29·3, 110·6 and 53·4" respectively.
lxxi	Do.	I	Cocanada	Rainfall	48	*For* "·56" *read* "0·56".
lxxiii	Do.	I	Kabul	Do.	51 and 53	*For* "4·42 and —5·23" *read* "8·02 and —1·63" respectively.
lxxvi	Do.	II	Nagpur	Temperature of air	9, 11, 12, 14, 17 and 18.	*For* "101·6, 30·5, 111·2, 53·8, 86·0 and —4·6" *read* "101·6, 29·9, 110·6, 53·2 85·7 and —4·9" respectively.
lxxvii	Do.	II	Belgaum	Vapour Tension	27	*For* "—·147" *read* "—·135."
lxxviii	Do.	II	Darjeeling	Temperature of air	9 and 11	*For* "58·8 and 15·1" *read* "58·7 and 15·0".
lxxxiii	May	I	Port Blair	Temperature of air	15, 16, 17, 18, 19, 22, 23 & 24.	*For* "82·7, ?, 87·1, ?, 87, 78·4, 20th and 17·7" *read* "79·6, +1·2, 84·8, +1·8, 11·8, 74·6, 21st and 21·5" respectively.
lxxxiii	Do.	I	Barisal	Do.	15, 16, 17, 18, 19, 22, & 24.	*For* "73·8, ?, 81·8, ?, 15·9, 66·1 and 29·2" *read* "76·5, —0·9, 29·2, —1·6, 13·2, 68·8 and 26·5" respectively.
lxxxiv	Do.	I	Allahabad	Do.	22	*For* "70" *read* "70·1."
lxxxv	Do.	I	Mainpuri	Rainfall	52 & 53	*For* "0·4 and —0·4" *read* "0·04 and —0·04" respectively.
lxxxix	Do.	I	Khandwa	Wind velocity	35 & 38	*For* "7·8 and 7·4" *read* "7·8? and 7·4?" respectively.
lxxxix	Do.	I	Chanda	Wind direction	31 & 32	*Insert* 3 and 3 respectively.
xci	Do.		Cocanada	Do.	30	*Insert* 1.
cii	June	I	Car Nicobars	Temperature of air	13, 15, 17, & 19.	*For* "8·66, 78·9, 82·8 and 7·7" *read* "86·9, 79·0, 83·0 and 4·9" respectively.
cii	Do.	I	Port Blair	Do.	13, 14, 15, 16, 17, 18 & 19.	*For* "84·9, —1·1, 77·8, 0, 81·4, —0·6 and 7·1" *read* "85·0, —1·0, 77·5, —0·3, 81·3, —0·7 and 7·5" respectively.
cii	Do.	I	Barisal	Do.	15, 16, 17, 18, 19, 22 & 24.	*For* "78·2, 0, 84·7, +1·2, 12·9, 70·1, and 23·7" *read* "80·9, +2·7, 86·1, +2·6, 10·2, 72·8 and 21·0" respectively.
cii	Do.	I	Calcutta	Do.	22	*For* "7·39" *read* "73·9".
ciii	Do.	I	Car Nicobars	Rainfall	48 & 51	*For* "5·52 and 15·21" *read* "5·84 and 14·83" respectively.
cvii	Do.	I	Ludhiana	Do.	48, 50, 51 & 53.	*For* "0·50, —2·52, 0·50 and —3·13" *read* "0·48, —2·54, 0·48 and —3·15" respectively.
cviii	Do.	I	Belgaum	Number of district	1	*For* "22" *read* "38".

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TABLES I AND II.

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
cviii	June	I	West Coast	Temperature of air	14	*For* "+0·6" *read* "+0·5".
cxii	Do.	I	Shillong	Elevation	3	*For* "4900" *read* "4920".
cxii	Do.	I	Pachmarhi	Temperature of air	24	*For* "31·10" *read* "31·0".
cxvii	Do.	II	Port Blair	Rainfall	53	*For* "24·84" *read* "24·76".
cxviii	Do.	II	Pachmarhi	Temperature of air	14	*For* "1·2" *read* "69·2".
cxviii	Do.	II	Chikalda	Pressure	7	*For* "26·156" *read* 26·166".
cxviii	Do.	II	Aden	Elevation	3	*Insert* "94".
cxix	Do.	II	Katmandu	Vapour Tension	28	*For* "+·603" *read* "+·003".
cxix	Do.	II	Pachmarhi	Rainfall	53	*For* "1·83" *read* "1·86".
cxxii	July	I	Port Blair	Temperature of air	15, 16, 17, 18, 19, 22, 23 & 24.	*For* "79·0, +1·6, 82·5, +1·2, 71, 74·4, 20th and 15·2" *read* "78·3, +0·9, 82·0, +0·8, 78, 74·3, 20th, and 21st and 15·3" respectively.
cxxii	Do.	I	Barisal	Do.	15, 19, 22 & 24.	*For* "75·5, 11·8, 72·6 and 20·2" *read* "78·2, 9·1, 75·3 and 17·5" respectively.
cxxiii	Do.	I	Car Nicobars	Rainfall	51	*For* "20·83" *read* "20·45".
cxxiii	Do.	I	Assam	Cloud	44	*For* "+0·5" *read* "—0·5".
cxxvii	Do.	I	Pachpadra	Rainfall	52	*For* "16·75" *read* "·675".
cxxviii	Do.	I	Hoshangabad	Pressure	4	*For* "28·63" *read* "28·631".
cxxviii	Do.	I	Nagpur	Temperature of air	16 & 18	*For* "+0·3 and +0·6" *read* "+0·2 and +0·5" respectively.
cxxx	Do.	I	Salem	Do.	15, 16, 17, 18, 19, 22 & 24.	*For* "74·5, +1·5, 85·6, +2·6, 22·2, 70·4 and 29·8" *read* "74·8, +1·8, 85·8, +2·7, 21·9, 75·6 and 24·6" respectively.
cxxx	Do.	I	Srinagar	Do.	15, 16, 17, 18, 19, 22, 23 & 24.	*For* "62·8, —1·8, 75·6, +0·8, 25·4, 51·2, 10th and 45·6" *read* "63·5, —1·1, 75·8, +1·1, 24·7, 57·2, 14th and 39·6" respectively.
cxxxvi	Do.	II	Peshawar	Do.	17	*For* "62·4" *read* "102·4".
cxxxvi	Do.	II	Jacobabad	Pressure	4, 6, 7, 8 & 9.	*For* "29·244, ·111, 29·195, —·044 and ·332" *read* "29·242, ·109, 29·194, —·045 and ·331," respectively.
cxxxvii	Do.	II	Diamond Island	Rainfall	53	*For* "23·09" *read* "22·09".
cxxxviii	Do.	II	Salem	Temperature of air	14, 18, 24 & 15.	*For* "74·5, 22·1, 70·4, and 29·6" *read* "74·7, 21·9, 75·6 and 24·4" respectively.
cxxxix	Do.	II	.....	Wind direction	43	*For* "S. W." *read* "S".
cxlii	August	I	Myitkyina	Temperature of air	12	*For* "78·7" *read* "78·9".
cxliii	Do.	I	Car Nicobars	Rainfall	52	*Insert* "32·01".
cxliii	Do.	I	Myitkyina	Hygrometer, 8 A.M.	39 & 41	*For* "91 and ·899" *read* "90 and ·896" respectively.
cxliv	Do.	I	Barisal	Temperature of air	15, 19, 22, 23 & 24.	*For* "75·9, 10·4, 73·1, 11th and 17·2" *read* "?, ?, ?, ? and ?" respectively.
cxlv	Do.	I	Saugor Island	Rainfall	48, 50, 51 & 53.	*For* "9·64, —6·04, 24·13 and —12·61" *read* "9·46, —6·22, 33·95 and —12·79" respectively.
cxlvi	Do.	I	Bahraich	Temperature of air	13, 14, 17, 18 & 19.	*For* "88·1, —1·8, 82·9, —1·1 and 10·4" *read* "87·9, —2·0, 82·8, —1·2 and 10·2" respectively.

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TABLES I AND II.

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
cxlviii	August . .	I	Peshawar . .	Temperature of air .	15, 16, 17, 18 and 19.	*For* "80·4, +2·6, 91·9, +3·4 and 22·9" *read* "80·7, +2·9, 92·0, +3·5 and 22·6" respectively.
cxlviii	Do. . .	I	Jacobabad . .	Do. .	22 and 23.	*For* "78·72 and 9th & 30th" *read* 78·7 and 29th & 30th" respectively.
cxlviii	Do. . .	I	Hyderabad . .	Do. .	22 and 23.	*For* "76·51 and 8th & 19th" *read* "76·5 and 18th & 19th" respectively.
cxlviii	Do. . .	I	Bhavnagar Para .	Do. .	12	*For* "82·5" *read* "82·6".
cl	Do. . .	I	Malegaon . .	Pressure . .	9	*For* "8·269" *read* "28·269".
cl	Do. . .	I	Khandwa . .	Temperature of air .	13, 14 and 19	*For* "86·3, +0·8 and 11·3" *read* "86·4 +0·9 and 11·4" respectively.
cl	Do. . .	I	Aurangabad . .	Do. .	15, 17 and 19	*For* "70·4, 78·2 and 15·6" *read* "70·3, 78·1 and 15·7" respectively.
cli	Do. . .	I	Malegaon . .	Rainfall . .	50	*For* "—0·2" *read* "—0·02".
cli	Do. . .	I	Khandwa . .	Wind velocity .	35 and 38	*For* "9·3 and 8·8" *read* "9·3 and 8·8" respectively.
cliv	Do. . .	II	Mount Abu . .	Temperature of air .	15, 16, 17, 18 and 19.	*For* "63·9, —0·3, 68·4, +0·3 and 8·9" *read* "63·7, —0·5, 68·3, +0·2 and 9·1" respectively.
cliv	Do. . .	II	Pachmarhi . .	Do. .	13, 14, 17, 18 and 19.	*For* "75·6, +0·9, 71·4, +0·5 and 8·3" *read* "75·7, +1·0, 71·5, +0·6 and 8·5" respectively.
clv	Do. . .	I	Do. . .	Rainfall . .	48, 50, 51 and 53.	*For* "11·74, —8·94, 46·82 and —10·39" *read* "11·97, —8·71, 47·05 and —10·16" respectively.
clxi	Do. . .	II	Sangor Island .	Do. . .	53.	*For* "9·81" *read* "9·46".
clxii	Do. . .	II	Port Victoria . .	Temperature of air .	10	*For* "8·17" *read* "81·7".
clxvi	September .	I	Port Blair . .	Ditto .	13, 14, 15, 16, 17 and 18.	*For* "84·6, —0·5, 78·7, +2·2, 81·7 and +0·9" *read* "84·9, —0·2, 77·4‡, +0·9 81·2‡ and +0·4" respectively.
clxvi	Do. .	I	.....	.....	...	*Insert* as foot-note "‡ mean of 28 days".
clxvii	Do. .	I	Car Nicobar . .	Rainfall . .	51	*Insert* "40·44".
clxvii	Do. .	I	Sangor Island .	Do. . .	51 and 53.	*For* "46·85 and —11·19" *read* "46·67 and —11·37" respectively.
clxviii	Do. .	I	Purnea . . .	Temperature of air .	22	*For* "14·2" *read* "74·2".
clxviii	Do. .	I	False Point . .	Do. .	13, 14 and 19	*For* "87·1, —0·8 and 8·5" *read* "87·0, —0·9 and 8·4" respectively.
clxviii	Do. .	I	Hazaribagh . .	Do. .	15, 16, 18 and 19.	*For* "72·6, +0·4, —0·4 and 10·9" *read* "72·5, +0·3, —0·5 and 11·0" respectively.
clxviii	Do. .	I	Chaibassa . .	Do. .	22	*For* "7·0" *read* "73·0".
clxxiii	Do. .	I	Ahmednagar . .	Rainfall . .	50	*For* "—5·7" *read* "—5·97".
clxxiii	Do. .	I	Akola . . .	Do. . .	50	*For* "—5·9" *read* "—0·59".
clxxxvii	October .	I	Car Nicobar . .	Do. . .	51	*For* "52·42" *read* "52·04".
clxxxvii	Do. .	I	Sangor Island .	Do. . .	51 and 53	*For* "62·90 and —3·78" *read* "62·72 and —3·96" respectively.
cxcii	Do. .	I	Hoshangabad .	Temperature of air .	18	*For* "—0·6" *read* "—1·6".
cciii	Do. .	II	Pachmarhi . .	Humidity . .	33	*For* "—9" *read* "—8".
ccvii	November .	I	Car Nicobar . .	Rainfall . .	51	*For* "54·21" *read* "53·83".

Corrigenda in India Monthly Weather Reviews for the year 1905—*concluded.*

TABLES I AND II.

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
ccvii	November	I	Saugor Island	Rainfall	51 and 53	*For* "62·90 and +5·49" *read* "62·72 and —5·67" respectively.
ccx	Do.	I	Udaipur	Pressure	6	*For* "30·10" *read* "30·105".
ccx	Do.	I	Nowgong	Do.	4	*For* "29·34" *read* "29·324".
ccxii	Do.	I	Aurangabad	Number of District	1	*For* "29" *read* "39".
ccxii	Do.	I	Karwar	Temperature of air	13, 14 and 19	*For* "89·5, +2·1 and 17·2" *read* "89·6, +2·2 and 17·3" respectively.
ccxiv	Do.	I	Pudukkottai	Elevation	3	*Insert* "318".
ccxiv	Do.	I	Cocanada	Number of District	1	*For* "5" *read* "52".
ccxiv	Do.	I	Bellary	Temperature of air	24	*For* "30·8" *read* "30·8".
ccxiv	Do.	I	Hill Station	Station	2	*For* "H Hill Station" *read* "XII Hill Station."
ccxvi	Do.	I	Ranikhet	Number of District	1	*Insert* "25".
ccxvi	Do.	I	Muktesar	Do.	1	*Omit* "25".
ccxvi	Do.	I	Yatung	Do.	1	*Insert* "13".
ccxvi	Do.	I	Darjeeling	Do.	1	*Omit* "13".
ccxvi	Do.	I	Shillong	Do.	1	*Insert* "8".
ccxvi	Do.	I	Cherra Poonji	Do.	1	*Omit* "8".
ccxvi	Do.	I	Mount Abu	Do.	1	*Insert* "50".
ccxvi	Do.	I	Pachmarhi	Do.	1	*For* "30" *read* "42".
ccxvi	Do.	I	Wellington	Do.	1	*For* "42" *read* "34".
ccxvi	Do.	I	Ootacamund	Do.	1	*Omit* "34".
ccxvii	Do.	I	Bahrein	Wind direction	32, 33 and 34	*For* "6, 7 and N.39° W" *read* "7, 9 and N.43° W" respectively.
ccxvii	Do.	I	Zanzibar	Rainfall	48	*For* "27·9" *read* "27·9".
ccxx	Do.	II	Karwar	Temperature of air	10 and 12	*For* "89·9 and 17·4" *read* "89·8 and 17·3" respectively.
ccxxiii	Do.	II	Port Victoria	Vapour tension	28	*Insert* "+·030".
ccxxvi	December	I	Tavoy	Elevation	3	*For* "20" *read* "19".
ccxxix	Do.	I	Puri	Rainfall	46	*For* "0·67" *read* "0·61".
ccxxx	Do.	I	Jacobabad	Temperature of air	15, 16 17, 18 and 19.	*For* "47·6, +3·6, 61·8, +1·4 and 28·3" *read* "48·2, +4·2, 62·1, +1·7 and 27·2" respectively.
ccxxx	Do.	I	Jaipur	Number of District	1	*For* "40" *read* "50".
ccxxx	Do.	I	Udaipur	Temperature of air	24	*For* "41·2" *read* "41·3".
ccxxxvii	Do.	I	Kailang	Rainfall	45, 48, 50, 51, 53 and 54.	*Insert* "5, 1·31, +0·23, 1·32, +0·23 and 0·26" respectively.

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LIST OF PLATES.

PLATE I.—A chart of India shewing the 11 meteorological provinces and 57 districts of India.

PLATE II.—A chart of India shewing normal monthly rainfall and the departure from normal of the actual monthly rainfall, January and February 1905. This chart and the three following charts have been prepared to illustrate the data given in Table XXX. These charts are drawn up in the same manner as the rainfall chart (Plate VIII) in the monthly Weather Reviews of the year 1905.

PLATE III.—A chart of India shewing normal monthly rainfall and the departure from normal of the actual monthly rainfall, March to May 1905.

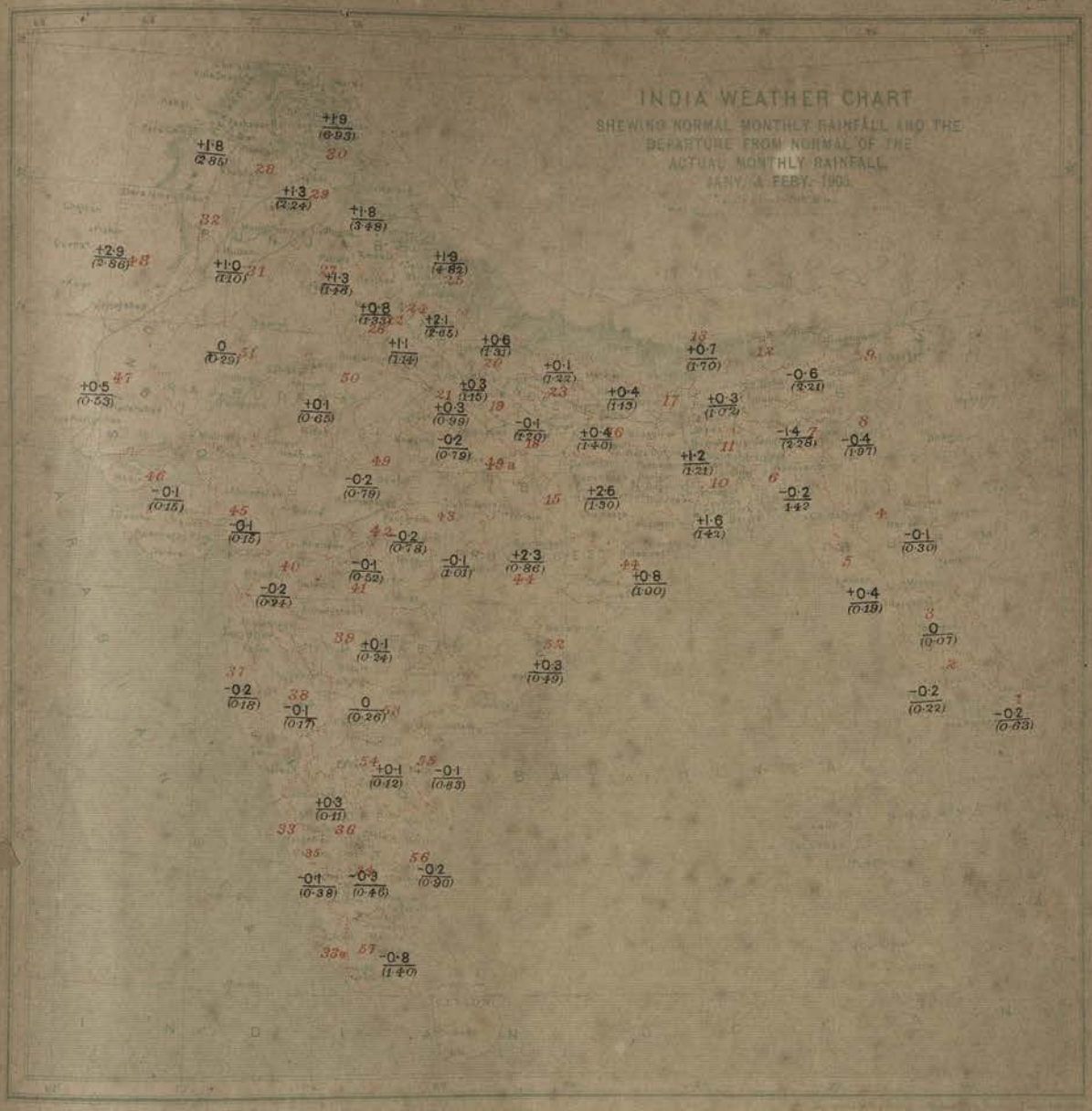
PLATE IV.—A chart of India shewing normal monthly rainfall and the departure from normal of the actual monthly rainfall, June to October 1905.

PLATE V.—A chart of India shewing normal monthly rainfall and the departure from normal of the actual monthly rainfall, November and December 1905.

The usual chart shewing the tracks of the more important cyclonic storms of 1905 in the Indian area during the south-west monsoon will be published in the Annual Summary of 1906.

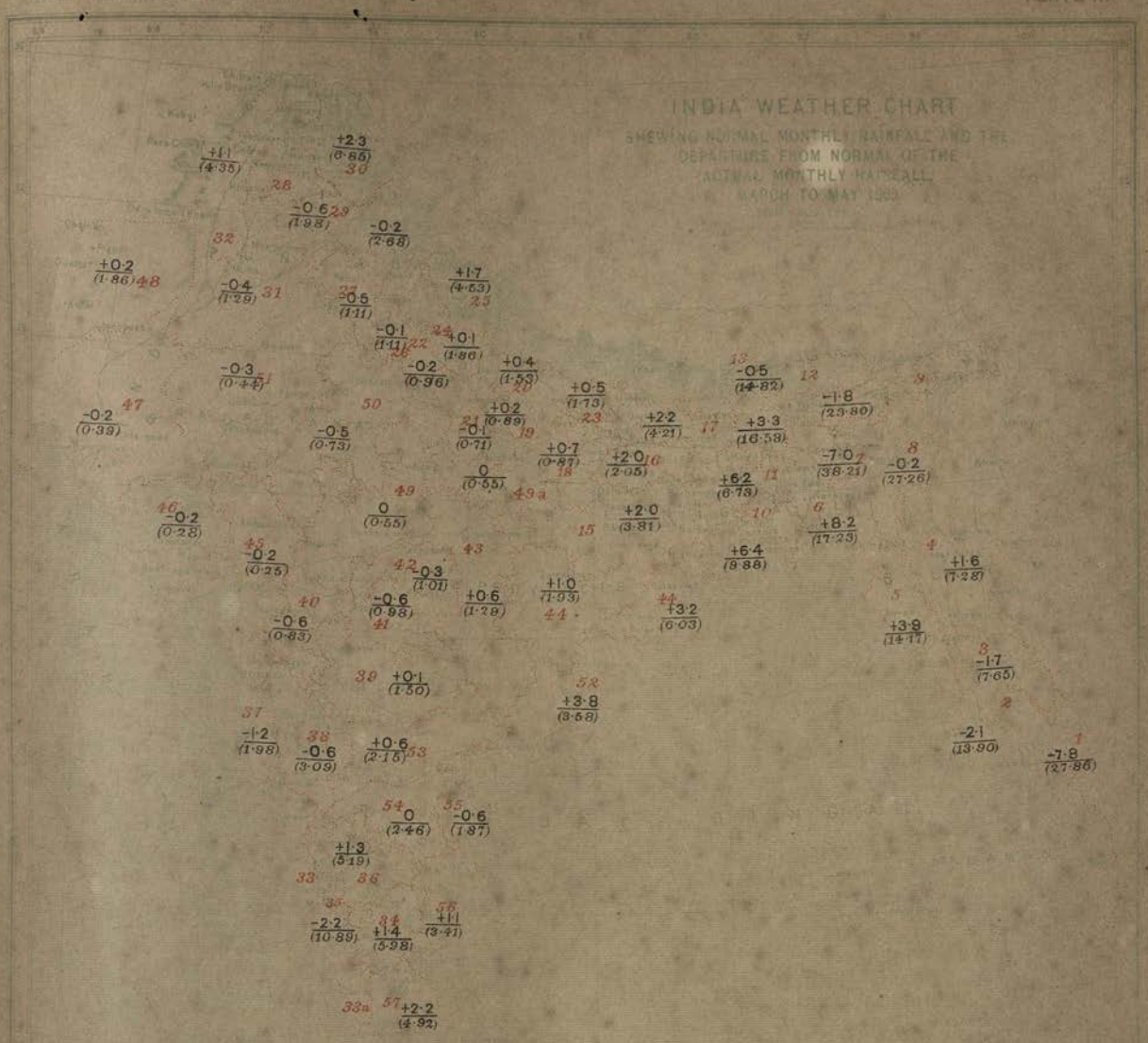
The country is divided into 57 districts, over each of which the meteorological conditions are fairly uniform, and the staple crops similar in character. The name of the district can be ascertained by referring in the following list to the number given in each district in red figures.

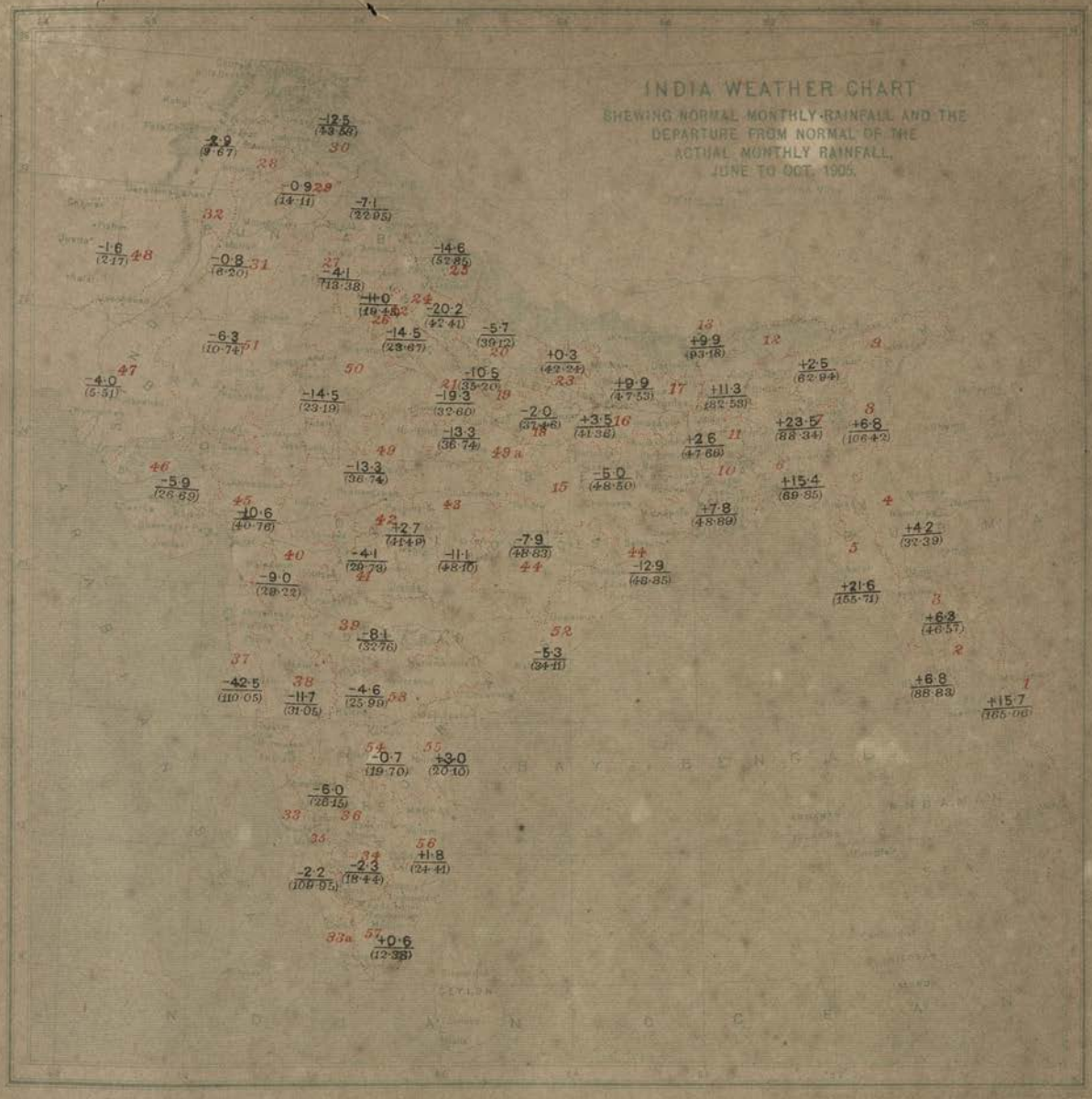
1. [illegible]
2. [illegible] Dellain
3. Central do.
4. Ajmer do.
5. Arakan do.
6. East Bengal
7. Assam Surma
8. Do., Hills
9. Do., Brahmaputra
10. Deltaic Bengal
11. Central do.
12. North do.
13. Bengal Hills
14. Bissa
15. Chota Nagpur
16. South Bihar
17. North Bihar
18. United Provinces, East
19. South Oudh
20. North do.
21. 18 Provs. Central
22. Do., West
23. Do., East Submontane
24. Do., West do.
25. Do., Hills
26. South East Punjab
27. South do.
28. Central do.
29. Punjab, Submontane
30. Do., Hills
31. West Punjab
32. North West Frontier Province
33. Malabar
33a. Travancore
34. Madras, South Central
35. Coorg
36. Mysore
37. Konkan
38. Bombay Deccan
39. Hyderabad, North
40. Khandesh
41. Berar
42. Central Provinces, West
43. Do., Central
44. Do., East
45. Gujarat, East
46. Kathiawar and Cutch
47. Sind do.
48. Baluchistan Hills
49. Central India, West
49a. Do., East
50. Rajputana, East
51. Do., West
52. Madras, East Coast, North
53. Hyderabad, South
54. Madras, Central
55. Do., East Coast, Central
56. Do., East Coast, South
57. Do., South


INDIA WEATHER CHART
SHEWING NORMAL MONTHLY RAINFALL AND THE DEPARTURE FROM NORMAL OF THE ACTUAL MONTHLY RAINFALL
JANY. & FEBY. 1905.

The country is divided into 57 areas, over each of which the meteorological conditions are fairly uniform and the rainfall of a similar character. The numbers in brackets on the chart give the average or normal (typical) of the normal monthly rainfall, the numbers above these give the departure from these normals of the average actual rainfall over the division. The name of the division can be ascertained by referring in the following list to the number given in each district in red figures.

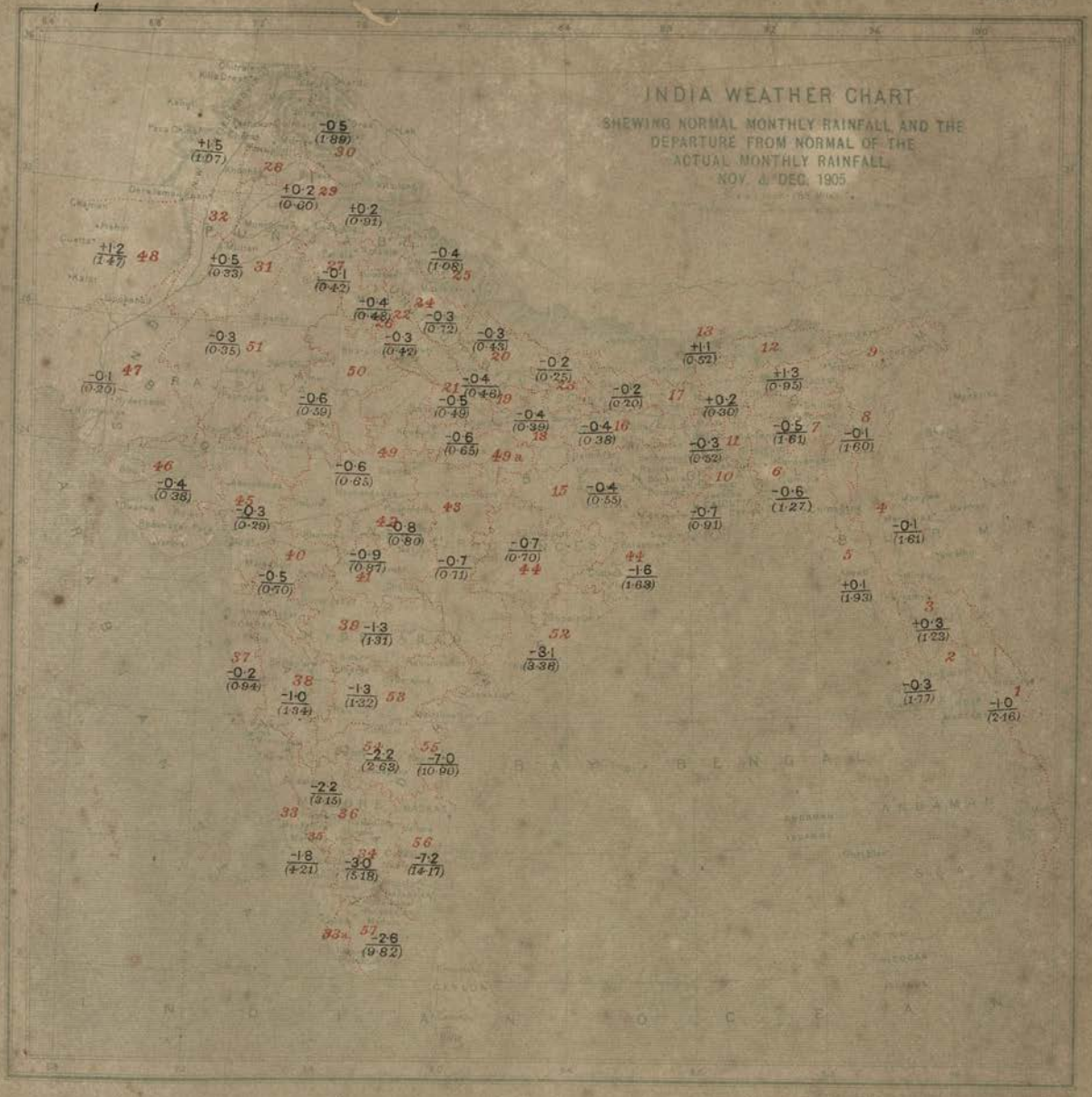
1.	Tenasserim	19.	North Bihar	38.	Malabar	53.	Baluchistan Hills
2.	Lower Burma Deltaic	18.	United Provinces, East	39.	Travancore	54.	Central Indian West
3.	Central do.	102.	South Gujrat	41.	Madras, South Central	101.	Do., East
4.	Upper do.	20.	North do.	42.	Coorg	55.	Rajputana, East
5.	Arakan	21.	U. Provs., Central	43.	Kanara	56.	Do., West
6.	East Bengal	22.	Do., West	44.	Konkan	57.	Madras, East Coast, North
7.	Assam, Surma	23.	Do., East Submontane	45.	Bombay Division	58.	Hyderabad, Central
8.	Do., Hills	24.	Do., West do.	46.	Hyderabad, North	59.	Madras, Ceded
9.	Do., Brahmaputra	25.	Do., Hills	47.	Khandesh	60.	Do., East Coast, Central
10.	Deltaic Bengal	26.	South East Punjab	48.	Berar	61.	Do., East Coast, South
11.	Central do.	27.	South do.	49.	Central Provinces, West	62.	Deccan, South
12.	North do.	28.	Central do.	50.	Do., Central		
13.	Bengal Hills	29.	Punjab, Submontane	51.	Do., East		
14.	Orissa	30.	Do., Hills				
15.	Chota Nagpur	31.	West Punjab	52.	Gujarat, East		
16.	South Bihar	32.	North West Frontier Province	40.	Kathiawar and Cutch		
				47.	Sind		


INDIA WEATHER CHART
SHEWING NORMAL MONTHLY RAINFALL AND THE
DEPARTURE FROM NORMAL OF THE
ACTUAL MONTHLY RAINFALL
MARCH TO MAY 1905
+2·3 (6·85) 30
+1·1 (4·35)
28
-0·6 (1·98) 29
-0·2 (2·68)
32
+0·2 (1·86) 48
-0·4 (1·29) 31
-0·5 (1·11) 27
+1·7 (4·53) 25
-0·1 (1·11) 24
+0·1 (1·86)
-0·3 (0·44) 51
-0·2 (0·96) 20
+0·4 (1·53)
+0·5 (1·73)
-0·5 (14·82) 13
12
9
-1·8 (23·80)
-0·2 (0·38) 47
50
-0·5 (0·73)
+0·2 (0·89) 21
-0·1 (0·71) 19
23
+2·2 (4·21)
17
+3·3 (16·58)
+0·7 (0·87) 18
+2·0 (2·05) 16
-7·0 (38·21) 7
8
-0·2 (27·26)
0 (0·55)
+6·2 (6·73) 11
49
49a
46
-0·2 (0·28)
0 (0·55)
+2·0 (3·81) 10
6
+8·2 (17·23)
15
48
-0·2 (0·25)
43
42
-0·3 (1·01)
+6·4 (9·88)
4
+1·6 (1·28)
+1·0 (1·03)
40
-0·6 (0·98)
+0·6 (1·28)
44
+3·2 (6·03)
5
-0·6 (0·83) 41
+3·9 (14·17)
3
-1·7 (7·65)
39
+0·1 (1·50)
52
+3·8 (3·58)
2
37
-1·2 (1·98)
38
-0·6 (3·09)
+0·6 (2·15) 53
-2·1 (13·90)
1
-7·8 (27·86)
54
0 (2·46)
55
-0·6 (1·87)
+1·3 (5·19)
33
36
35
-2·2 (10·89)
34
+1·4 (5·98)
56
+1·1 (3·41)
33a
57
+2·2 (4·92)



The country is divided into 35 areas, over each of which the meteorological conditions are fairly uniform, and the staple crops similar in character. The numbers in brackets on the chart give the average over the division of the normal monthly rainfall, the numbers above these give the departure from these normals of the average actual rainfall over the division. The name of the district can be ascertained by referring in the following list to the number given in each district in red figures.

1.	Tenasserim	13a	North Hinder	29.	Malabar	45.	Gulfs of Cutch
2.	Lower Burma Deltaic	13.	Gangetic Provinces, East	30a	Travancore	46.	Central Hinder, West
3.	Central do.	14.	South Gangetic	31.	Madras, South Central	13a	Do., East
4.	Upper do.	26.	South do.	32.	Coorg	50.	Rajputana, East
5.	Arakan	21.	Do., Central	33.	Mysore	51.	Do., West
6.	East Bengal	22.	Do., West	34.	Konkan	52.	Madras, East Coast, North
7.	Assam, Surma	23.	Do., East Submontane	35.	Bombay Deccan	53.	Hyderabad, South
8.	Do., Hills	24.	Do., West do.	36.	Hyderabad, North	54.	Madras, Central
9.	Do., Brahmaputra	25.	Do., Hills	37.	Khandesh	55.	Do., East Coast, Central
10.	Deltaic Bengal	27.	South East Punjab	38.	Berar	56.	Do., East Coast, South
11.	Central do.	28.	South do.	42.	Central Provinces, West	57.	Do., South
12.	North do.	29.	Central do.	43.	Do., Central		
13.	Bengal Hills	29.	Punjab Submontane	44.	Do., East		
14.	Orissa	30.	Do., Hills	45.	Gujarat, East		
15.	Chota Nagpur	31.	West Punjab	46.	Kathiawar and Cutch		
16.	South Bihar	32.	North West Frontier Province	47.	Sind		



The country is divided into 57 areas, over each of which the meteorological conditions are fairly uniform and the staple crops similar in character. The numbers in brackets on the chart give the average over the division of the normal monthly rainfall; the numbers above these give the departure from these normals of the average actual rainfall over the division. The name of the district can be ascertained by referring in the following list to the number given in each district in the figure.

1. Tenasserim	17. North Bihar	33. Malabar	49. Baluchistan Hills		
2. Lower Burma Deltaic	18. United Provinces, East	34. Travancore	50. Central India, West		
3. Central do.	19. South Oudh	35. Madras, South Central	51. Do., East		
4. Upper do.	20. North do.	36. Coorg	52. Rajputana, East		
5. Arakan	21. U. Provs., Central	37. Mysore	53. Do., West		
6. East Bengal	22. Do., West	38. Konkan	54. Madras, East Coast, North		
7. Assam, Surma	23. Do., East Submontane	39. Bombay Deccan	55. Hyderabad, South		
8. Do., Hills	24. Do., West do.	40. Hyderabad, North	56. Madras, Central		
9. Do., Brahmaputra	25. Do., Hills	41. Khandesh	57. Do., East Coast, Central		
10. Deltaic Bengal	26. South East Punjab	42. Berars	58. Do., East Coast, South		
11. Central do.	27. South do.	43. Central Provinces, West	59. Do., South		
12. North do.	28. Central do.	45. Do., Central			
13. Bengal Hills	29. Punjab, Submontane	44. Do., East			
14. Orissa	30. Do., Hills	45. Gujarat, East			
15. Chota Nagpur	31. West Punjab	46. Kathiawar and Cutch			
16. South Bihar	32. North West Frontier Provinces	47. Sind			

PUBLICATIONS OF THE INDIA METEOROLOGICAL DEPARTMENT.

The following is a list of the more important publications of the India Meteorological Department :—

The Indian Meteorologist's *Vade Mecum*, Part I, 2nd Edition. (1883). . . . . Price Rs. 3	Henry F. Blanford.
The Indian Meteorologist's *Vade Mecum*, Part II. (1877) . . . . . Price Rs. 5*	Ditto.
Instructions to Observers of the India Meteorological Department, 2nd Edition. (1902) . . . . . Price Rs. 3	Sir John Eliot.
Tables for the reduction of Meteorological Observations in India, 2nd Edition. (1889). . . . . Price Rs. 2	Henry F. Blanford.
Hand-book of Cyclonic storms in the Bay of Bengal for the use of sailors, 2nd Edition, Vol. I—Text. (1900) . . . Price Rs. 4	Sir John Eliot.
Hand-book of Cyclonic storms in the Bay of Bengal for the use of sailors, 2nd Edition, Vol. II—Plates. (1902) . Price Re. 1-8	Ditto.
Cyclone Memoirs, Part I—Bay of Bengal Cyclone of May 20th to 28th, 1887. (1888) . . . . . Price Re. 1*	Ditto.
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Cyclone Memoirs, Part III—Bay of Bengal Cyclones of September 13th to 20th, and October 27th to 31st, 1888, and Arabian Sea Cyclone of November 5th to 9th, 1888. (1890) . Price Rs. 5	Ditto.
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Cyclone Memoirs, Part V—Account of three Cyclones in the Bay of Bengal and Arabian Sea during November, 1891. (1893) . . . . . Price Rs. 3	Sir John Eliot.
Report of the Midnapore and Burdwan Cyclone of the 15th and 16th of October, 1874. (1875) . . . . . Price Rs. 3*	W. G. Wilson.
Report of the Vizagapatam and Backergunge Cyclones of October, 1876. (1877) . . . . . Price Rs. 3*	Sir John Eliot.
Report on the Madras Cyclone of May, 1877. (1879) Price Rs. 3*	Ditto.
Monthly weather charts of the Bay of Bengal and adjacent sea north of the equator, showing mean pressure, winds and currents. (1886) . . . . . Price Rs. 5	Henry F. Blanford.
Monthly weather charts of the Arabian Sea and the adjacent portion of the North Indian Ocean, showing mean pressure, winds and currents. (1888) . . . . . Price Rs. 5	Sir John Eliot.
Charts of the Bay of Bengal and adjacent sea north of the equator, showing the specific gravity, temperature and currents of the sea surface. (1887) . . . . . Price Rs. 1-8	W. L. Dallas.
Climatological Atlas of India (1906) Price Rs. 27 or 36 shillings	Sir John Eliot.
Daily weather reports and charts of the Indian monsoon area for the years 1893 to 1899 . . Price, each month, Re. 1 *	Departmental.
Normal weather or pilot charts of the Indian monsoon area for 8 A.M. for each month, November, 1900, to June, 1907† Price, each month, Annas 4.	Ditto.
Rainfall data of India for the years 1891—1905 (15 volumes): Price, for each year, Rs. 5 *	Ditto.
Reports on the Meteorology of India for the years 1875—1890 (16 volumes)‡ . . . . . Price each Rs. 10	Ditto.
India Weather Review—Annual Summaries for the years 1891—1904 (14 parts)¶ . . . . . Price each Rs. 3	Ditto.
Monthly Weather Reviews for each month, January, 1891, to September, 1906 § . . . . . Price, each part, Re. 1	Ditto.

Indian Meteorological Memoirs, Vol. I, containing :—

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Part V, comprising— Observations of temperature and humidity at a height of 40 feet above the ground at Alipore Observatory, Calcutta. Price Re. 1	S. A. Hill.

Indian Meteorological Memoirs, Vol. III, containing a full discussion of the rainfall of India and cognate subjects, complete in 4 parts. Price, each part, Rs. 2* — Henry F. Blanford.

Indian Meteorological Memoirs, Vol. IV, containing :—

Part I, comprising— Account of the south-west monsoon storm of the 12th to the 17th of May, 1884, in the Bay of Bengal and at Akyab . . . On the diurnal variation of the rainfall at Calcutta . . . The meteorological features of the southern part of the Bay of Bengal . . . . . Price Rs. 3*	Sir John Eliot. Henry F. Blanford. W. L. Dallas.
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Part VIII, comprising— An account of the more important cold weather storms in India during the years 1876 to 1891 . . . . Price Rs. 3*	Sir John Eliot.

* Copies of publications to the price of which an asterisk is appended are out of print.

† The Normal weather or pilot chart of the Indian monsoon area for 8 A.M. is a monthly publication. Copies for June, August and September, 1901, January to October, 1902, and August to September, 1903, are out of print.

‡ Copies of the Reports on the Meteorology of India for the years 1876, 1878 to 1881, 1884, 1887 and 1890 are out of print.

¶ Copies of the India Weather Reviews—Annual Summary for the years 1891 to 1904 are out of print.

§ The Monthly Weather Review is a monthly publication continuously published about four months after the month. Copies of Monthly Weather Review for 1891—97, January, 1898, 1899, 1900, 1901, January to May 1902, January to November (June excepted), 1903, and January, 1904, are out of print.

Indian Meteorological Memoirs, Vol. V, containing —

The discussion of the hourly observations made at Sibsagar, Goalpara, Patna, Hazaribagh, Dhubri, Roorkee, Allahabad, Lucknow, Agra, Leh, Deesa, Kurrachee and Lahore and at Simla. Complete in 10 parts . . . Price, each part, Re. 1* — Parts I—VII, Henry F. Blanford. Parts VIII—X, Sir John Eliot.

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GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT.

THE

INDIA WEATHER REVIEW

FOR THE YEAR

1906.

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UNDER THE DIRECTION OF

GILBERT T. WALKER, M.A., Sc.D., F.R.S.,

DIRECTOR GENERAL OF OBSERVATORIES.

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SIMLA:

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1908.

ANNUAL SUMMARY, 1906.

INTRODUCTION.

For the comparison of medical and meteorological statistics, India has been divided into the following provinces, which are believed to be fairly homogeneous so far as the conditions of the prevalence of the more common diseases are concerned :—

(1) Burma Coast and Bay Islands.

(2) Burma Inland.

(3) Assam.

(4) Bengal and Orissa.

(5) Gangetic Plain and Chota Nagpur.

(6) Upper Sub-Himalayas, including the west sub-montane districts of the United Provinces and the sub-montane districts of the Punjab and the meteorological divisions of the South-East, South and Central Punjab.

(7) Indus Valley and North-West Rajputana.

(8) East Rajputana, Central India and Gujarat.

(9) Deccan.

(10) West Coast.

(11) South India.

The data for each of these divisions are given in Table I in large figures.

According to a second method of arrangement, India has been divided, from the agricultural stand-point, into 57 meteorological districts or divisions, each of which is fairly homogeneous so far as the distribution of rainfall, the general character of the crops and the conditions of their growth are concerned.

The double grouping is shown in plate 1 at the end of this summary.

The data of Table I in the monthly reviews and in the present annual part are obtained, with a few exceptions, from the observations telegraphed daily to Simla for publication in the Daily Weather Report. In the case of thermometric observations, they are telegraphed to the nearest half degree. Hence the maximum and minimum temperature data of the second class observatories derived from these telegraphic reports and given in Table I, occasionally differ to some slight extent from the means of the more exact data (recorded to the tenth of a degree) tabulated in the observation forms sent to the Calcutta Office, and used in the calculation of the mean temperature data in Table II. There is also another reason why the mean maxima and minima data in Tables I and II differ to a slight extent. In Table I the daily or 24 hour period is assumed to end at 8 hrs. and in Table II at midnight [except for rainfall the period of which ends at 8 hrs.] and hence the maximum temperature in Table I for any month of 31 days at any station gives the mean for 31 periods of 24 hours ending at 8 hrs. of the 31st, and in Table II for the same number of 24 hour periods ending at midnight on the 31st, and hence virtually of a monthly period one day in advance of the former. Similarly for months of 28, 29 or 30 days. These remarks will explain some of the slight discrepancies which may be found between the maxima and minima temperature mean data in Tables I and II, and hence also in the monthly mean departure data given in these tables in the monthly reviews and annual summary.

The methods of exposure of the instruments at observatories in India, and of the reduction of the observations and the calculation of mean data, have been fully stated and explained in the Annual Reports on the Meteorology of India, and need not be repeated. The reader is referred more especially to the Annual Report of the year 1885 and to the "Instructions to observers of the Indian Meteorological Department" for full information on this subject.

Solar, Magnetic and Seismic Activity.

Report from Kodaikanal Observatory.

Sunspots.—The solar activity as gauged by the number of groups of sunspots was about equal to that in 1905, although fewer great spots visible to the naked eye were seen. The monthly numbers of new groups for the years 1905 and 1906 are given in the following table:—

Year.	New groups observed.												Annual.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
1905 . . .	24	26	20	27	27	17	33	28	27	16	29	22	295
1906 . . .	22	18	38	30	20	27	25	26	28	19	15	29	297

The distribution of the groups between the northern and southern hemispheres was very unequal, nearly two-thirds of the whole number of groups appearing in the northern hemisphere and the preponderance of northern groups held during every month of the year. Of the total number of new groups 191 appeared in the northern hemisphere with a mean latitude + 12°·2 and 106 were southern groups with a mean latitude of —13°·7.

There were 19 spots classed as "large" or "moderate" in size. One of the largest was first formed on the visible disc on June 8th and lasted until September 4th. This was a quiet spot as regards disturbances to the hydrogen lines and bright metallic eruptions.

Another large spot was first seen on July 27th as three mall dots. It developed with great rapidity after the 28th and by the end of the month had become a large group visible to the naked eye. On July 30th the spectrum showed considerable disturbance. On this date the spot was on the central meridian and there was a 'great' magnetic disturbance.

Another active spot came round the eastern limb on December 12th. During its progress across the visible disc the hydrogen lines were frequently reversed and on December 15th brilliant metallic eruptions issued from the umbrae.

Prominences.—The first 6 months of the year were very prolific in prominences, the mean daily frequency rising to 10·4 in the northern and 9·5 in the southern hemisphere. In the second half of the year there was however a great falling off in activity in both hemispheres and the mean frequency and mean height for the year were practically the same as for 1905. The figures for the two years are given in the following table:—

Year.	Days of observation.	Total number observed.	Mean daily frequency.		Mean height.	Mean heliographic latitude.	
			North.	South.		North.	South.
1905 . .	305	4,757	7·8	7·8	31·4	37·3	38·8
1906 . .	274	4,846	8·6	8·2	30·6	38·8	40·3

The distribution in latitude up to the end of June was similar to that in 1905 excepting that the high latitude zones of activity in each hemisphere had advanced to within 10 degrees of the poles and prominences were frequently observed at the position angles of the poles.

In the second half of the year the distribution changed considerably. There was no very marked region of great activity in either hemisphere: prominences were however still to be seen at and near the poles.

The general distribution for the year appears to be characteristic of the year following an epoch of sunspot maximum. Fifty-one metallic prominences were recorded, 38 of them being in the northern hemisphere. They were practically confined to the sunspot zones, the mean latitude observed being + 19°·8 and —20°·0. Thirty-four large prominences exceeding 2 minutes in height were recorded, 18 in the northern hemisphere and 16 in the southern. The highest was observed on May 19th in north latitude 79°. In the calcium photograph this could be traced to 108,000 miles above the sun's limb. Another on May 16th almost opposite to the former in south latitude 78° reached 90,000 miles in calcium.

J. EVERSHED,
Acting Director,
Kodaikanal & Madras Observatories.

The Bombay Magnetic Record.

The Colaba magnetic record ceased in April 1906, and the record of the new magnetic observatory at Alibag which, to keep the continuity of the Bombay record had been running as duplicate series for two years, is made use of in the note for the year.

Tables A and B giving the mean monthly values of the several magnetical elements and of the summed ranges of the Horizontal Force both at Colaba and Alibag are given below for reference and comparison :—

TABLE A.

Months.	Absolute Horizontal Force in C. G. S. units.				Absolute Declination in Arc.				Mean Dip.	
	By Instrument No. 7.	Excess over Colaba of same epoch.	By Instrument No. 8.	Excess over Colaba of same epoch.	By Instrument No. 7.	Excess over Colaba of same epoch.	By Instrument No. 8.	Excess over Colaba of same epoch.	By Instrument No. 160.	Excess over Colaba of same epoch.
1	2	3	4	5	6	7	8	9	10	11
					° ′ ″	° ′ ″	° ′ ″	° ′ ″	° ′	° ′
January 1904	·36875	—·00536	·36875	—·00536	1 10 57	+0 54 14	1 11 46	+0 55 3	22 52·1	+1 3·6
February ,,	·36878	·00524	·36875	·00528	1 10 35	0 54 15	1 10 50	0 54 30	22 52·0	1 3·0
March ,,	·36891	·00507	·36888	·00511	1 10 45	0 54 15	1 10 40	0 54 10	22 51·2	1 3·1
April ,,	·36879	·00561	·36873	·00506	1 10 30	0 54 23	1 9 58	0 53 51	22 53·1	1 5·2
May ,,	·36879	·00509	·36877	·00511	1 9 54	0 54 19	1 9 46	0 54 11	22 52·7	1 5·1
June ,,	·36884	·00507	·36879	·00511	1 9 26	0 53 57	1 9 51	0 54 22	22 54·9	1 6·0
July ,,	·36888	·00502	·36881	·00503	1 9 3	0 53 32	1 9 15	0 53 44	22 55·3	1 6·0
August ,,	·36885	·00507	·36882	·00507	1 8 39	0 53 29	1 9 10	0 54 0	22 55·7	1 7·1
September ,,	·36881	·00509	·36880	·00511	1 8 35	0 53 51	1 7 40	0 52 56	22 56·7	1 7·6
October ,,	·36878	·00497	·36876	·00500	1 8 41	0 53 57	1 7 17	0 52 33	22 56·8	1 6·6
November ,,	·36879	·00504	·36876	·00506	1 9 5	0 54 44	1 7 29	0 53 8	22 57·7	1 6·2
December ,,	·36892	·00503	·36886	·00509	1 8 3	0 53 24	1 6 59	0 52 20	22 53·4	1 5·7
Annual mean of 1904	·36882	—·00509	·36879	—·00512	1 9 31	+0 54 2	1 9 14	+0 53 41	22 54·7	+1 5·4
January 1905	·36873	—·00510	·36867	—·00516	1 8 24	+0 54 7	1 6 41	+0 52 24	22 58·9	+1 5·2
February ,,	·36872	·00507	·36871	·00508	1 8 22	0 54 18	1 7 8	0 52 59	22 58·6	1 3·3
March ,,	·36875	·00510	·36874	·00511	1 7 57	0 53 51	1 7 16	0 53 10	22 59·1	1 3·9
April ,,	·36879	·00495	·36872	·00502	1 7 34	0 53 10	1 6 25	0 52 1	23 0·4	1 6·2
May ,,	·36885	·00500	·36883	·00502	1 7 18	0 53 20	1 6 5	0 52 7	23 0·2	1 4·9
June ,,	·36879	·00509	·36877	·00511	1 6 59	0 52 32	1 6 5	0 51 38	23 0·9	1 4·5
July ,,	·36880	·00508	·36875	·00513	1 6 23	0 52 43	1 5 43	0 52 3	23 1·5	1 2·0
August ,,	·36869	·00513	·36867	·00515	1 6 29	0 52 30	1 5 32	0 51 33	23 2·8	1 3·2
September ,,	·36864	·00516	·36863	·00517	1 6 13	0 52 17	1 5 17	0 51 21	23 3·6	1 2·5
October ,,	·36874	·00504	·36869	·00509	1 6 7	0 52 21	1 5 7	0 51 21	23 3·5	1 3·6
November ,,	·36852	·00521	·36853	·00520	1 6 40	0 53 8	1 5 44	0 52 12	23 5·0	1 4·9
December ,,	·36868	·00526	·36867	·00527	1 6 15	0 52 46	1 5 13	0 51 44	23 4·7	1 3·8
Annual mean of 1905	·36872	—·00510	·36870	—·00512	1 7 3	+0 53 5	1 6 1	+0 52 3	23 1·6	+1 4·0
January 1906	·36876	—·00520	·36875	—·00521	1 6 7	+0 52 59	1 5 12	+0 52 4	23 4·4	+1 3·1
February ,,	·36863	·00526	·36859	·00530	1 6 14	0 52 56	1 5 6	0 51 58	23 6·1	1 2·8
March ,,	·36878	·00522	·36872	·00523	1 5 50	0 52 40	1 4 43	0 51 33	23 5·8	1 3·3
Mean for the whole period.	·36877	—·00511	·36874	—·00514	1 8 2	+0 53 29	1 7 20	+0 52 46	22 59·0	+1 4·5

NOTE.—Instrument No. 7 has been accepted as the standard instrument for Alibag, instrument No. 8 being considered auxiliary.

Table B.

Months.	Horizontal Force Summed Range (in C. G. S. Units).		
	At Colaba.	At Alibag.	Excess over Colaba.
January 1905	·00206	·00217	+·00011
February „	·00282	·00292	+·00010
March „	·00391	·00397	+·00006
April „	·00349	·00362	+·00013
May „	·00318	·00329	+·00011
June „	·00370	·00381	+·00011
July „	·00337	·00347	+·00010
August „	·00311	·00315	+·00004
September „	·00258	·00267	+·00009
October „	·00318	·00328	+·00010
November „	·00369	·00386	+·00017
December „	·00241	·00250	+·00009
January 1906	·00188	·00195	+·00007
February „	·00295	·00303	+·00008
March „	·00363	·00371	+·00008

The mean absolute values of the different magnetic elements obtained from all days in the year are as follows :—

Mean Easterly Declination	...	1° 5′·5
„ Horizontal Force ...	...	0·36374 C. G. S. Unit.
„ Vertical Force ...	...	0·15762 „ „
„ Inclination (calculated)	...	23° 8′·7 „ „
„ Inclination (observed twice a week).		23° 7′·9 „ „

During the year there were 134 calm days, 213 days of small and 17 days of moderate disturbance. The same for the year 1905 were 146, 193, and 20 respectively. Only one great disturbance and that by no means markedly active was recorded on the 22nd December, as against six similar disturbances in 1905, indicating a waning of the magnetic energy as affected by the 11 yearly cycle. The disturbance commenced at about 2·4 h., with a sudden rise of force equal to about 65 γ., followed by a gradual fall. The minimum was attained at 19·1 h., indicating a diminution in force of about 161 γ., from the initial value before the disturbance; quiet conditions were established at about 10 A.M., of the following day.

The following is a list of days selected as "quiet" during the year.

Months.	Selected Quiet Days.				
January	1	11	16	20	30
February	5	12	13	18	22
March	3	12	16	22	27
April	5	7	17	18	26
May	2	5	17	23	30
June	6	7	12	22	29
July	7	8	19	20	22
August	1	16	18	19	23
September	8	10	11	19	28
October	4	6	8	28	31
November	1	4	15	27	30
December		5	13	25	31

The following table prepared in accordance with the suggestions made by the International Commission, Terrestrial Magnetism, represents the magnetic character of each day during the year :—

Table representing the Magnetic character of each day during the year 1906.

1906.	Month.											
Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	0	1	1	1	1	1	1	0	1	2	0	1
2	1	1	1	1	0	2	0	1	1	1	0	1
3	0	1	0	1	0	1	1	0	1	1	0	1
4	0	1	1	1	0	1	0	0	1	0	0	0
5	0	0	1	0	0	1	1	0	1	1	1	0
6	0	1	1	0	1	0	1	0	1	0	1	1
7	0	1	1	0	1	0	0	1	1	0	1	1
8	1	1	1	1	1	1	0	2	0	0	1	2
9	1	1	1	1	1	1	1	1	1	0	1	2
10	0	1	1	1	0	1	1	1	0	0	1	1
11	0	0	1	1	1	1	2	1	0	1	1	0
12	1	0	0	1	0	0	1	2	1	1	1	1
13	1	0	1	1	0	1	1	1	0	1	1	0
14	1	1	1	1	1	1	1	1	1	1	0	1
15	1	1	1	0	2	1	1	1	1	0	0	1
16	0	1	0	0	1	1	0	0	1	1	1	2
17	0	0	1	0	0	1	0	1	0	1	1	2
18	0	0	1	0	0	0	0	0	1	0	1	1
19	1	2	0	1	1	0	0	0	0	1	1	1
20	0	1	0	0	1	0	0	1	1	1	0	0
21	1	1	0	1	1	0	1	0	1	1	1	1
22	1	0	0	1	0	0	0	0	1	1	2	2
23	0	1	0	1	0	0	1	0	2	1	1	2
24	0	2	1	1	1	1	1	1	1	1	1	1
25	0	1	1	1	0	1	1	1	1	1	1	0
26	0	1	1	0	0	1	1	1	1	1	1	1
27	1	0	0	0	1	0	1	1	1	1	0	1
28	1	1	0	1	1	1	1	1	0	0	0	1
29	1	...	0	1	0	0	1	1	1	1	0	0
30	0	...	0	1	0	0	2	1	1	1	0	0
31	2	...	0	...	0	...	1	1	...	0	...	0
M	15	22	18	20	16	19	23	22	24	22	20	28

In the above table 0 represents calm day.

" " " 1 " small disturbance.

" " " 2 " larger "

Table I gives the corrected monthly mean absolute values of the several magnetic elements as also the summed ranges of the Horizontal Force. In table II will be found the list of seismic disturbances, and in table III, movements in the magnetograph traces suspected to be due to seismic causes, indicating a sudden strain.

Table I.

Months 1906.	Absolute values of				Horizontal Force summed ranges.
	Horizontal Force in C. G. S. unit.	Vertical Force in C. G. S. unit.	Inclination.	Easterly Declination.	
			° ′	° ′ ″	C. G. S. unit.
January . .	0·36877	0·15723	23 5·5	1 6 25	·00195
February . .	·36865	·15733	6·7	1 6 31	·00303
March . .	·36874	·15738	6·8	1 6 7	·00371
April . .	·36879	·15745	7·2	1 5 54	·00394
May . . .	·36877	·15757	8·2	1 5 48	·00342
June . . .	·36886	·15761	8·1	1 5 14	·00329
July . . .	·36877	·15764	8·7	1 5 15	·00340
August . .	·36876	·15779	10·0	1 5117	·00276
September . .	·36869	·15777	10·0	1 5 13	·00258
October . .	·36874	·15781	10·2	1 4 49	·00289
November . .	·36875	·15790	10·8	1 4 37	·00215
December . .	·36864	·15793	11·4	1 4 43	·00194

Examining the march of the magnetic energy, as measured by the summed ranges of the Horizontal Force, in relation to the sun-spot cycle the statement made in the notes for the month of August 1903, and for the year 1904, that the maximum would be a low maximum, and diffused over a considerable period extending from 1905 to 1907 has now been confirmed. The smoothed means of the summed ranges of Horizontal Force indicate the maximum to have been reached late in 1905 with a fall in 1906, followed by a small rise again in 1907. This is the smallest maximum observed in the Colaba record which extends now over a period of 60 years. The greatest maximum was recorded late in 1870, and assuming that these mark the greatest and the smallest (or about the smallest) maxima in a cycle of a larger period, the probable period here indicated would be of about 70 years.

The curve of the smoothed summed ranges of Horizontal Force at Colaba runs fairly parallel to the curve of smoothed solar spots (Wolfer's numbers), throughout the period 1846-1907, the parallelism being strikingly closer in the last two eleven yearly cycles than in the first three.

Table II.—*Disturbances recorded by Milne's Seismograph.*

Date 1906.	P. T. Commence.	L. W. Commence.	Max.	End.	Max. Amplitude.	Duration.	Remarks.
	H. M.	H. M.	H. M.	H. M.	M.M.	H. M.	
January 6	22 9·9	...	22 13·3	22 34·2	0·4	0 24·3	
„ 15	19 44·3	...	19 46·0	20 6·0	0·7	0 21·7	
„ 21	13 58·8	...	14 8·2	...	1·5	...	End lost in shifting time.
„ 27	10 17·1	...	10 28·0	11 33·7	2·3	1 16·6	
„ 1	15 56·3	...	17 18·5	20 5·1	15·2	4 8·8	
February 1	2 49·0	...	2 54·0	3 46·5	0·6	0 57·5	
„ 19	2 23·6	...	3 12·9	4 53·9	1·5	2 30·3	
„ 23	15 53·7	...	15 57·8	16 18·5	1·0	0 24·8	
„ 24	9 24·4	...	9 25·4	9 32·8	0·7	0 8·4	
„ 26	10 41·6	...	10 42·2	10 49·8	0·5	0 8·2	
„ 27	19 44·2	19 47·2	19 49·4	21 5·0	8·4	1 20·8	

TABLE II.—*Disturbances recorded by Milne's Seismograph*—contd.

Date 1906.	P. T. Commence.	L. W. Commence.	Max.	End.	Max. Amplitude.	Duration.	REMARKS.
	H. M.	H. M.	H. M.	H. M.	M.M.	H. M.	
March 2	6 25·0	...	6 30·1	7 18·5	2·6	0 53·5	
„ 3	59·7	...	10 7·1	10 59·5	0·6	0 59·8	
„ 10	17 24·1	...	17 30·5	17 46·0	0·6	0 21·9	
„ 13	14 1·4	...	14 6·3	14 32·0	0·5	0 30·6	
„ 16-17	22 57·2	...	23 10·4	0 46·1	2·5	1 48·9	
„ 20	3 58·5	...	4 2·5	4 30·2	1·0	0 31·7	
„ 26	1 48·4	...	1 48·7	1 51·6	1·1	0 3·2	
„ 27	5 48·3	...	6 3·4	6 51·4	0·8	1 3·1	
„ 28	19 1·3	...	19 16·1	19 43·2	0·7	0 41·9	
April 10	22 39·1	...	22 51·5	23 40·0	1·0	1 0·9	
„ 11	11 23·4	...	11 38·7	12 50·9	1·0	1 27·5	
„ 13	19 32·8	...	19 46·0	20 21·7	1·1	0 48·9	
„ 18	13 40·8	...	14 34·1	17 4·3	6·3	3 23·5	
„ 19	7 52·8	...	8 1·8	8 24·7	0·3	0 31·9	
„ 29	16 21·5	...	16 54·9	17 29·3	1·9	1 7·8	
May 2	1 42·7	...	1 47·2	1 57·4	0·3	0 14·7	
„ 12	5 53·5	...	6 1·4	6 21·1	1·9	0 27·6	
„ „	11 16·8	...	11 24·4	11 38·1	0·8	0 21·3	
June 1	4 41·9	...	5 22·2	6 35·1	2·0	1 53·2	
„ 10	20 51·6	...	21 3·3	21 33·6	1·0	0 42·0	
„ 19	11 24·4	...	11 56·8	12 36·9	0·9	1 12·5	
„ 24	11 23·2	...	11 34·9	13 6·3	7·0	1 43·1	
July 14	0 43·4	...	0 55·1	1 16·1	0·8	0 32·7	
August 1-2	23 59·6	...	0 6·4	0 22·5	0·5	0 22·9	
„ 17	0 27·1	...	...	4 34·3	...	4 7·2	As the traces overlap max. amplitude cannot be found.
„ 25	12 6·6	...	12 15·5	12 28·6	0·9	0 22·0	
„ „	14 0·2	...	14 9·3	15 4·2	5·0	1 4·0	
„ 30	3 46·3	...	4 6·8	4 48·7	1·3	1 2·4	
„ 31	15 2·9	...	15 6·4	15 21·2	0·9	0 18·3	
September 7	19 10·2	...	19 37·1	20 36·0	2·1	1 25·2	
„ 14	14 6·8	...	14 12·1	14 39·8	0·7	0 33·0	
„ „	16 16·3	...	17 2·4	19 21·0	2·4	3 4·7	
„ 20	18 45·9	...	18 54·9	19 7·9	0·7	0 21·0	
October 2	2 12·9	...	2 51·2	4 43·9	1·7	2 30·0	
„ 6	12 55·4	...	13 3·7	13 27·1	0·4	0 31·7	
„ 10	13 9·3	...	13 31·3	13 56·1	0·8	0 46·8	
„ 10-11	23 25·6	...	23 38·7	0 9·2	0·9	0 43·6	
„ 17	9 54·2	...	10 14·4	11 1·6	1·6	1 7·2	

TABLE II.—*Disturbances recorded by Milne's Seismograph*—concld.

Date 1906.	P. T. Commence.	L. W. Commence.	Max.	End.	Max. Amplitude.	Duration.	REMARKS.
	H. M.	H. M.	H. M.	H. M.	M.M.	H. M.	
October 24	14 50·1	...	14 55·8	...	15·4	...	End lost in shifting time.
„ 31	2 19·2	...	2 21·0	2 57·4	0·7	0 38·2	
November 14	18 9·5	...	18 37·9	19 20·7	0·6	1 11·2	
„ 19	7 27·9	...	7 52·4	9 42·0	8·7	2 14·1	
„ 8	10 10·6	...	10 27·6	10 55·5	0·6	0 44·9	
December 19	1 44·3	...	2 30·2	4 8·7	1·9	2 24·4	
„ 23	18 26·9	...	18 39·1	20 57·0	9·0	2 30·1	
„ 23	7 40·6	...	8 0·6	8 43·2	0·6	1 2·6	
„ „	17 45·2	...	18 22·7	20 14·8	4·0	2 29·6	
„ 26	6 13·6	...	7 18·8	7 57·7	1·0	1 44·1	

TABLE III.—*List of movements in the magnetograph traces suspected to be due to seismic causes.*

Date 1906.	Hour.	Duration in hours.	Date.	Hour.	Duration in hours.	Date.	Hour.	Duration in hours.
February 14	21	5	May 6	23	5	July 30	1	14
March 4	4	4	„ 7	17	12	November 10	16½	7
„ 12	22	6	„ 10	22	8	„ 25	18	6
April 2	21½	9	„ 14	2	5	...	...	...
„ 23	21	5	June 4	19	8	...	...	...
„ 28	18½	20	July 10	7	8	...	...	...

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Solar Radiation.

It was stated in the Annual Report of 1889 that the observations of black bulb solar thermometers are liable to large and irregular changes which make them unfit for accurate observations. The instruments were accordingly withdrawn from use, except at the following stations:—

Srinagar.	Jodhpur.	Bombay.
Simla.	Allahabad.	Leh.
Lahore.	Calcutta (Alipore).	Ootacamund.
		Aden.

Observations of the solar thermometers were made during the year 1906 at all these stations with the exception of Aden. The monthly averages of past years and the departures from them of the data of 1906 are given in Tables IV and V and the mean comparative data for the past seventeen years in Table VI.

TABLE IV.—*Average excess of mean monthly and annual maximum insolation over the corresponding maximum shade temperatures.*

STATION.	Years of observations used.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
		°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	1902-06	34·4	42·3	46·1	52·1	52·4	53·6	53·9	50·6	44·6	43·1	38·9	32·5	45·4
Simla	1890-06	60·9	64·9	66·9	69·0	68·0	62·4	49·2	48·3	59·8	70·0	67·8	63·6	62·6
Lahore	Do.	48·0	53·7	55·6	56·7	52·8	50·0	51·8	54·3	53·2	51·9	49·6	46·9	52·0
Jodhpur	1897-06	52·8	55·1	56·8	56·7	54·2	53·2	56·2	56·6	55·8	53·1	51·5	50·4	54·4
Allahabad	1890-06	57·6	58·1	58·5	57·4	56·4	56·6	56·8	56·8	59·0	56·0	56·7	57·1	57·3
Calcutta (Alipore)	Do.	51·4	52·9	53·5	53·7	53·9	52·3	53·4	54·8	55·4	54·5	52·3	51·6	53·3
Bombay	Do.	50·0	51·1	50·4	50·8	50·8	46·2	42·3	45·8	48·9	50·0	49·8	49·4	48·9
Leh	Do.	65·9	73·7	72·6	71·8	68·5	66·5	64·7	65·3	65·6	66·5	65·2	62·9	67·4
Ootacamund	1903-06	74·1	75·4	75·4	74·3	71·7	63·6	66·3	72·0	73·3	71·6	71·9	70·5	71·7
Aden	1890-02	51·5	52·6	51·8	48·0	45·6	41·1	42·0	44·9	49·6	52·4	50·6	50·2	48·4

TABLE V.—*Departures from the averages of Table IV of mean monthly and annual excess of sun over shade temperatures in 1906.*

STATION.	Number of years that the instrument, the observations of which are utilized for this comparison, has been in use.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
		°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	2	−5·8	−4·1	−5·6	−0·4	+0·5	−1·7	−2·8	−0·3	+0·6	−2·8	−4·0	−1·7	−2·4
Simla	2	+5·8	−3·6	−3·8	−2·9	−2·9	−9·3	−1·4	−13·5	−5·6	+2·2	+7·3	+2·4	−2·1
Lahore	21	−1·2	+3·0	−3·9	−3·0	−4·0	−2·4	−2·7	−6·3	−2·0	−3·9	−3·6	−2·9	−2·7
Jodhpur	9	+0·5	−3·3	+1·1	−0·4	−2·5	+0·4	−0·6	+1·7	+0·4	+0·9	−0·2	−0·3	−0·2
Allahabad	4	+1·4	−0·3	+0·4	−1·5	−3·0	+1·9	+0·7	+0·2	+1·6	+1·1	+0·3	−0·9	+0·1
Calcutta (Alipore)	4	+0·7	+1·3	+2·2	−2·5	−2·7	−0·1	+0·1	−2·8	−3·3	−3·0	−1·4	−1·7	−1·5
Bombay	21	0	−1·4	−1·8	3	−1·3	−5·3	−4·0	−3·7	+0·5	−1·7	−4·5	−1·0	−2·3
Ootacamund	1*	P	P	P	P	P	P	P	P	−5·9	−9·5	−7·0	−6·9	P
Leh	11	−3·5	−10·1	−1·6	−8·5	−1·9	−1·3	−1·6	+1·6	−6·5	−1·7	−2·3	−4·3	−3·5

TABLE VI.—*Departures from normal of the annual mean excess of sun over shade temperature for each year of the period 1890-1906.*

STATION.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.
	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	P	P	P	P	P	P	P	P	P	P	P	P	−1·8	−0·4	+2·1	−3·1	−2·4
Simla	+2·0	+2·5	+2·2	+1·6	+0·2	+1·2	+0·2	−1·1	+1·1	+2·7	−3·1	−1·2	−3·0	−5·1	−0·2	+2·5	−2·1
Lahore	+3·6	+2·9	+2·0	+1·5	+0·7	+0·6	+0·4	+0·6	+0·2	−1·5	−1·1	−2·5	−2·9	−2·3	−3·0	−5·0	−2·2
Jodhpur	2	3	P	P	P	P	P	+1·7	+0·5	−0·2	−0·6	−0·5	−0·3	−0·3	−0·3	−0·7	−0·2
Allahabad	+0·2	+0·2	−0·3	−0·1	+0·3	−0·2	+0·6	+1·1	−0·4	−0·7	−0·6	−0·4	−0·7	−0·1	+1·6	+0·4	+0·1
Calcutta (Alipore)	+1·6	+1·5	+1·5	+0·9	+0·9	+1·8	+0·3	−1·3	+0·8	−2·1	−3·2	−1·6	−0·3	−0·7	−0·6	−0·4	−1·5
Bombay	+1·5	0	+0·4	+1·0	+0·4	+0·7	+1·0	+1·1	−0·4	−1·1	−1·0	−0·7	−0·9	−1·8	+0·1	+0·1	−2·2
Leh	P	+5·2	+3·4	+0·4	+1·3	+0·5	−0·2	+0·4	−2·3	−0·2	−2·1	−0·2	−1·6	−2·4	−3·4	−2·3	−3·5
Ootacamund	P	P	P	P	P	P	P	P	P	P	P	P	P	P	−0·5	P	P
Aden	+4·0	+4·8	+3·7	+0·9	+0·2	+0·5	−2·5	−4·7	−4·5	−0·9	−2·3	+0·7	P	P	P	P	P

*New instrument from 20th August 1906.

In order to secure accurate data regarding variations in the reception of solar heat, information which has hitherto been unsuccessfully looked for from black bulb thermometers, two of Professor Angstrom's electric compensation pyrheliometers were purchased during the year and brought into use late in October.

The instrument consists essentially of two thin metal strips, suitably blackened to secure high emissivity, and of these strips one at a time is heated by direct exposure to the sun, the other, shielded from the sun, being heated to the same temperature by a compensating electric current of which the magnitude is measured. Equality of temperature is judged by a zero method for which are used a d'Arsonval galvanometer, and two small thermal junctions opposed in series, one fixed on the back of each strip.* The properties of the strips as regards emissivity and resistance being known, the solar radiation actually received can be determined in absolute units from the measurement of the compensation current.

The following figures give maximum, minimum and mean values for the months of October, November and December 1906, as obtained by the pyrheliometer:—

1906.	Intensity of Solar Radiation at Simla. gramme-calories per sq. cm. per min.			Number of observations.
	Maximum.	Minimum.	Mean.	
October	1·50	1·42	1·46	6
November ...	1·54	1·43	1·49	15
December ...	1·54	1·42	1·49	4

* For further details of the instrument see "the Absolute Determination of the Radiation of Heat with the Electric Compensation Pyrheliometer," by Knut Angstrom, Astrophysical Journal, Volume IX, pages 332-346, and the references therein given.

Nocturnal Radiation.

It was stated in the Annual Report of 1890 that the observations of the terrestrial radiation thermometers in India are nearly as unsatisfactory as those of the solar radiation thermometers. Observations of these instruments were recorded during the year 1906 at the following stations :—

Srinagar.	Jodhpur.	Bombay.
Simla.	Allahabad.	Leh.
Lahore.	Calcutta (Alipore).	Ootacamund.
	Aden.	

The following table, TABLE VII, gives the average data of past years for the above stations ; TABLE VIII, the departure from the normal; and TABLE IX, the mean annual departure data for the past seventeen years.

TABLE VII.—*Average depression of mean monthly and annual nocturnal radiation temperatures below mean minimum shade temperatures.*

STATION.	Number of years observations used.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
		°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	8—13	7·5	8·1	8·9	7·9	8·7	8·8	9·0	8·1	12·2	11·7	11·4	11·5	9·5
Simla	16	4·3	3·4	3·5	5·6	4·1	3·5	2·8	2·1	3·4	4·3	4·4	4·3	3·8
Lahore	29—30	9,4	9·1	8·5	9·2	8·7	6·1	3·8	4·1	6·3	9·5	10·4	9·8	7·9
Jodhpur	9—11	9·0	8·7	7·9	7·7	4·9	2·2	1·7	1·9	4·3	9·5	10·5	9·6	6·5
Allahabad	29—30	11·0	11·5	12·6	12·4	8·9	5·0	3·0	2·6	4·0	9·0	12·3	12·2	8·7
Calcutta (Alipore)	29—30	7·7	7·1	5·9	4·5	3·0	2·1	1·8	1·9	2·5	4·5	6·8	8·2	4·7
Bombay	31	9·9	9·2	8·2	6·6	4·6	2·8	2·1	2·4	3·1	6·4	9·6	10·4	6·2
Leh	22—24	10·2	9·3	10·8	11·3	11·1	11·4	9·2	10·6	11·7	15·0	15·0	11·9	11·5
Ootacamund	3—4	5·5	5·5	4·9	4·3	3·6	2·2	1·7	2·3	2·3	3·0	3·5	4·8	3·6
Aden	22—24	3·1	2·6	2·8	3·0	3·5	?	?	?	?	?	?	?	?

TABLE VIII.—*Departures from the averages of Table VII of mean monthly and annual depression of nocturnal radiation temperatures in 1906.*

STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November	December.	YEAR.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	+ ·0	+2·8	+2·4	+4·0	+6·2	+9·1	+9·5	+9·5	+5·3	+5·7	−2·0	−0·9	+4·4
Simla	+3·0	−2·1	−1·8	−2·7	−0·8	−1·0	−1·1	−0·7	−0·9	−0·6	−0·6	−1·8	−1·4
Lahore	+3·5	−1·4	+0·5	+2·3	+2·1	+0·6	+0·2	−0·7	−0·2	+0·8	+1·4	+1·6	+0·9
Jodhpur	−0·6	−3·5	+7·4	−2·8	−1·4	+0·4	0	+0·4	−0·6	−1·9	+1·2	−0·8	−1·4
Allahabad	+2·1	−2·0	0	+2·4	−1·5	+0·5	−1·1	0	−0·1	0	+1·1	+1·0	+0·3
Calcutta (Alipore)	−2·6	−4·8	−2·9	−2·1	−1·0	−0·3	−0·1	0	−0·7	−1·5	−1·8	−2·9	−1·8
Bombay	+0·3	−1·7	−1·1	−0·7	−1·1	−0·5	−0·5	0	0	−0·2	−1·1	−2·5	−0·7
Leh	−3·7	+0·5	+3·0	−3·3	−2·9	−2·7	−9·2	−2·4	−3·7	−4·8	−3·5	−6·3	−2·4
Ootacamund	0	−0·1	−1·1	0	+0·7	+0·3	−2·4	−1·6	−0·8	+0·1	−0·5	−1·1	−0·7
Aden	−0·9	−1·1	−1·5	−0·8	−0·6	?	?	?	?	?	?	?	

TABLE IX.—*Departures from normal of the mean annual depression of nocturnal radiation temperatures.*

STATION.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.
	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	?	?	?	?	?	?	?	?	?	?	?	?	+1·2	0	−1·4	0	+4·4
Simla	+0·1	−0·1	+1·0	−0·3	−0·7	?	−0·8	+0·8	−0·8	−0·1	+0·5	−0·2	+1·3	−1·2	−0·6	−1·1	−1·4
Lahore	−1·2	−1·7	−0·9	−0·7	+0·7	+1·0	−0·3	−0·2	+1·0	+2·0	+2·2	+2·0	−1·0	+0·5	+0·4	+1·1	+0·9
Jodhpur	?	?	?	?	?	?	?	+0·1	0	−0·1	−0·5	−0·1	+1·1	−0·6	−1·4	−0·9	−1·4
Allahabad	−0·9	−0·6	0	−1·3	−1·2	+0·2	+1·0	+0·1	+1·2	+1·6	−0·9	+0·5	−1·1	+0·6	+0·9	+0·6	+0·3
Calcutta (Alipore)	−0·3	+0·1	−0·1	−0·5	−0·1	+0·1	+0·4	+0·2	+0·2	−0·2	−2·2	−1·7	+0·7	−1·7	−1·1	−1·6	−1·7
Bombay	+1·4	+2·5	+0·8	−1·0	−1·8	−1·2	+0·8	−0·3	−1·0	−0·6	−0·7	−1·1	−2·1	−1·2	−0·9	−0·6	−0·8
Leh	+3·1	+3·4	+2·9	+0·4	−2·3	−2·8	−2·0	−2·4	−0·1	−0·4	−2·1	+0·7	−1·3	?	−1·0	?	−2·7
Ootacamund	?	?	?	?	?	?	?	?	?	?	?	?	?	?	+0·1	+0·4	−0·4
Aden	−0·4	−0·5	+0·1	+1·2	+1·1	−0·4	−0·8	−0·4	−0·3	−0·1	+1·9	?	−0·2	+4·4	?	?	?

Temperature of the ground.

Observations of the temperature of the ground were recorded during the year 1906 at six stations, Lahore, Jaipur, Dehra Dun, Allahabad, Calcutta (Alipore) and Bombay.

The thermometers used for the purpose are verified standard mercurial thermometers with attached scales of porcelain, the scale being engraved also on the tube.

At Lahore and Jaipur the surface thermometer is read four times daily, at Allahabad at 6, 14, and 22 hrs., and at Calcutta at 18 hrs. 45 mins. At Dehra Dun all the five ground thermometers are read at 15 hrs. daily, and at Bombay the two nearest to the surface are read five times a day, the deeper instruments being read once only.

The thermometers below the surface have their bulbs protected with pointed copper shoes which rest on the ground at the bottom of a wooden tube, inserted to the specified depth and projecting six inches above the surface, the upper ends being closed by a cap of metal or wood. Those at depths of three and six feet are attached to the lower ends of stout wooden bars of about half the diameter of the tube. Those at one foot have a brass ring attached to the top of the wooden frame by which they are lifted; and in all these the lower part of the frame around the bulb has been cut away, and the lower end fitted with the copper shoe above mentioned.

The average monthly data are here given at length, but a paper recently published by Mr. R. Ll. Jones (Meteorological Memoirs, Vol. XV, Pt. III, 1904) makes it clear that the whole system of measurement of under-ground temperatures is unsatisfactory: analysis on the lines developed by Lord Kelvin leads to inconsistent results. It may be that this is due to irregularities from percolation of rainfall as well as to imperfections in the mode of measurement.

Under these circumstances a table of departures from the average of past years is more likely to give correct indications than a table of absolute temperatures recorded. The number of years included in the averages in the different cases lies between 21 and 27.

TABLE X.—*Departures from normal of the mean monthly and annual temperatures of the air and of the ground in 1906.*

		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
		°	°	°	°	°	°	°	°	°	°	°	°	°
LAHORE	Air	−1·2	−1·5	−4·6	−2·4	+3·7	0	+3·0	+1·4	−2·0	+1·3	+3·2	+3·1	+0·4
	Surface	−3·6	−2·4	−5·1	−2·8	+2·8	−1·1	+3·0	−2·4	−5·2	+0·6	−1·3	+0·9	−1·4
JAIPUR	Air	−1·8	−3·7	−1·7	−2·2	+3·3	+0·6	+0·9	+2·4	−0·3	+2·1	+2·6	+1·5	+0·3
	Surface	−1·8	−4·1	−2·1	−0·7	+3·4	+1·0	+0·9	+6·7	−1·2	+2·4	+3·3	+1·2	+0·8
DEHRA DUN.	Air	−0·9	−3·1	−3·6	−0·4	+3·5	+0·1	+1·0	−1·2	+0·3	+1·3	+1·7	+1·8	0
	1·1 feet deep	−1·4	0	−3·8	+0·8	+4·5	+0·5	+1·1	−1·3	−0·6	+1·9	+4·1	+3·1	+0·7
	3·2 „ „	−0·8	+0·1	−2·5	+0·6	+3·1	+2·6	+0·9	−0·6	−0·3	+1·8	+2·8	+2·7	+0·9
	6·4 „ „	+0·3	+1·4	−1·2	−1·2	+0·1	+1·1	+0·5	0	−0·4	+0·2	+1·8	+2·6	+0·4
	12·8 „ „	+0·2	+0·2	−0·1	−0·7	−0·4	+0·3	+0·5	+0·9	+0·3	+0·3	+0·7	+1·2	+0·3
	25·6 „ „	−0·2	−0·2	−0·2	−0·2	−0·4	−0·3	−0·2	+0·6	+0·7	+0·8	+0·6	+0·8	+0·2
ALLAHABAD	Air	−0·7	−1·3	−2·3	−0·4	+2·2	+0·9	+0·4	−0·1	−0·1	+0·9	+1·6	+1·3	+0·2
	Surface	−1·5	+0·9	−0·4	+0·8	+3·6	+1·9	+1·5	+1·9	+3·0	+3·2	+1·8	+0·8	+1·5
CALCUTTA (ALIPORE)	Air	−0·3	−0·3	−3·2	+1·7	+2·2	+1·4	+1·3	+0·9	+0·3	+0·3	+1·1	+1·8	+0·6
	Surface	+7·6	−3·3	−16·3	+0·7	+2·6	+2·3	−0·2	0	−4·8	−3·9	−0·3	+5·0	−0·9
BOMBAY	Air	−0·9	−1·6	−1·6	−1·3	+0·5	−0·2	+0·1	+0·7	+0·7	+0·8	+2·5	+1·6	+0·1
	1 inch deep	−0·8	−1·6	−1·5	−0·9	+1·0	+0·5	+0·7	+1·1	+0·8	+0·7	+1·9	+1·1	+0·2
	9 inches „	+0·7	+0·4	+0·1	+0·5	+2·5	+2·5	+2·6	+3·2	+2·6	+2·2	+3·0	+2·7	+1·9
	1 ft. 8 ins. „	+2·1	+2·0	+1·7	+2·0	+3·6	+3·6	+3·7	+4·0	+3·7	+3·1	+3·4	+3·5	+3·1
	5 feet deep	+2·6	+2·4	+2·1	+2·1	+2·5	+3·0	+3·0	+3·3	+3·1	+2·8	+2·8	+2·3	+2·7
	11 „ „	+2·5	+2·2	+2·0	+1·9	+1·7	+1·7	+1·6	+1·7	+1·9	+2·1	+2·3	+2·3	+2·0

Temperature.

The methods of exposing the thermometers at observatories in India are described in pages 18-19 of the Annual Report for 1890.

The method of deducing the daily and monthly means from the observed readings of the instruments is described in page 8 of Monthly Weather Review for January 1906.

The departures from normal of the mean temperature of each month given in Table II of the monthly reviews are deduced by a comparison of the actual monthly means with the normal monthly means given in the "Indian Meteorological Memoirs," Vol. XVII, pages 16 to 24.

The departures obtained by a comparison of these normal means with the actual monthly means in Table II of the monthly weather reviews for the year are given in Table XI.

The mean departures given in Table XII of the Geographical Summary are derived from the departure data of Table II of the Monthly Weather Reviews of the year 1906.

In Table I, published in each Monthly Review, the mean temperature of the day is calculated, as in the Daily Weather Report, by the formula :—daily mean $= \frac{\text{maximum} + \text{minimum}}{2}$. It differs from the true daily mean by amounts varying slightly with the season. In Table I of the Monthly Weather Reviews of the year 1906 are given the departure from normal of the monthly means of daily maximum and minimum temperatures, as well as the departures of the monthly means of daily mean temperature given by the formula ½ (maximum + minimum).

Normal monthly mean maxima and minima temperatures of 94 stations, calculated from the observations of the eleven years' period, 1878—1888, were given in the Annual Summary for 1891. The data for the years 1889—1893 were given in the 1894 Annual Summary, Tables I and II.

The additional data for the years 1894—1899 have been utilized to obtain what are probably slightly more accurate means than those published in the 1894 Annual Summary.

Tables XII and XIII (*a*), XIII (*b*) and XIII (*c*) give summaries of the temperature departure data for each month of the year 1906 and for the year. In the first table (Table XII) the same division has been adopted as that employed in the Annual Reports from 1881 to 1890. This enables a comparison to be made of the temperature data of the year 1906 with those of previous years given in the Annual Reports. In the second set of tables [Table XIII (*a*), XIII (*b*) and XIII (*c*)] the departure data are given for the eleven meteorological provinces and in the last table (Table XIV) the data are given for 55 of the 57 smaller divisions :—

TABLE XI.—*Departures from normal of monthly and annual mean air temperatures in 1906.*

Meteorological Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
Burma Coast and Bay Islands.	Port Blair	+0·5	−0·6	−0·4	+0·7	+1·8	−0·3	+0·5	0	+0·5	−0·7	−0·5	+0·4	+0·2
	Rangoon	+3·8	+1·3	−0·4	+0·6	+2·7	+0·4	+1·0	+1·4	+0·2	+0·2	+0·6	+2·0	+1·2
	Diamond Island	+0·9	+0·3	−1·3	−0·3	+0·5	+0·3	+1·0	+1·1	+0·8	+0·6	+0·6	+1·8	+0·6
	Akyab	−1·2	+0·1	−1·9	+1·0	+1·5	−0·5	+0·7	+0·7	−0·5	+0·2	−1·0	+0·8	0
Bengal and Orissa ...	Chittagong	−1·2	−0·1	−2·0	+0·6	0	−0·1	+0·4	−0·3	+0·2	+0·2	−0·7	+1·7	−0·1
	Calcutta (Alipore)	−0·3	−0·3	−3·2	+1·7	+2·2	+1·4	+1·3	+0·9	+0·3	+0·3	+1·1	+1·8	+0·6
	Saugor Island	−0·3	−0·4	−3·0	+1·1	+1·1	+0·4	+1·3	+1·6	+0·6	+1·0	+1·3	+2·6	+0·6
	False Point	+0·6	+0·2	−2·3	+0·2	+0·2	−0·5	+0·6	+0·4	+0·5	+0·2	+0·7	+2·5	+0·3
Gangetic Plain and Chota Nagpur.	Hazaribagh	−1·2	−2·6	−3·9	+0·7	+2·5	+2·4	+1·6	+0·4	+0·5	+0·1	+0·7	+1·3	+0·2
	Allahabad	−0·7	−1·3	−2·3	−0·4	+2·2	+0·9	+0·4	−0·1	−0·1	+0·9	+1·6	+1·3	+0·2

TABLE XI.—*Departures from normal of monthly and annual mean air temperatures in 1906*—contd.

METEOROLOGICAL PROVINCE.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
		°	°	°	°	°	°	°	°	°	°	°	°	°
UPPER SUB-HIMALAYAS	Dera Dun	−0·9	−3·1	−3·6	−0·4	+3·5	+0·1	+1·0	−1·2	+0·3	+1·3	+1·7	+1·8	0
	Roorkee	−2·6	−2·8	−4·8	−2·0	+2·5	−0·2	+0·1	−1·6	−1·2	+0·2	+0·2	+0·4	−1·0
	Lahore	−1·2	−1·5	−4·6	−2·4	+3·7	0	+3·0	+1·4	−2·0	+1·8	+3·2	+3·1	+0·4
	Ludhiana	−2·5	−1·5	−4·5	−1·8	+4·4	−0·4	+1·5	−2·9	−2·2	+1·7	+2·6	+1·8	−0·3
INDUS VALLEY AND NORTH-WEST RAJPUTANA.	Peshawar	−1·5	−2·7	−2·5	−2·7	+1·3	0	+1·1	+0·1	+0·6	+2·1	+3·0	+2·7	+0·1
	Jacobabad	−1·1	−4·1	−4·3	−1·2	+3·2	−0·4	+2·5	+0·4	+1·0	+2·8	+5·5	+3·9	+0·7
	Kurrachee	−0·8	−3·4	−1·6	−0·4	+1·0	0	+2·3	+1·7	+1·7	+1·3	+3·3	+3·1	+0·7
EAST RAJPUTANA, CENTRAL INDIA AND GUJARAT.	Jaipur	−1·8	−3·7	−1·7	−2·2	+3·3	+0·6	+0·9	+2·4	−0·3	+2·1	+2·6	+1·5	+0·3
	Deesa	−3·5	−4·7	−1·9	−1·8	+1·4	−0·9	0	+0·3	−1·4	+0·2	+1·8	+0·4	−0·8
DECCAN	Belgaum	+0·6	−3·2	−1·2	+1·4	+0·5	+0·6	+0·4	+1·0	−0·6	−0·1	+0·5	+0·9	+0·1
	Sholapur	+1·4	−0·6	−0·8	+2·0	+2·1	−0·1	+0·4	+0·8	−0·1	−1·3	+1·4	+1·7	+0·6
	Akola	+0·3	−0·7	−0·3	+0·6	+2·2	−1·1	+0·1	+0·8	−1·5	−0·4	+2·0	+2·4	+0·4
	Buldana	−0·2	−2·3	−1·7	+1·2	+2·0	−1·2	0	+0·3	−0·8	+0·2	+1·9	+1·2	0
	Khandwa	−1·9	−1·9	−1·1	−0·1	+2·2	+1·3	−0·2	+0·5	−1·8	−0·9	+1·7	+2·0	−0·2
	Nagpur	−0·2	−0·3	−2·4	+1·7	+2·0	−1·0	−0·8	−0·2	−1·3	−1·0	+0·1	+1·3	−0·2
	Hyderabad (Deccan)	+2·7	0	−0·9	+2·6	+2·9	−0·2	+1·2	+1·0	+0·4	+0·7	+1·4	+1·5	+1·1
WEST COAST	Bombay	−0·9	−1·6	−1·6	−1·3	+0·5	−0·2	+0·1	+0·7	+0·7	+0·8	+2·5	+1·6	+0·1
	Karwar	−0·6	−2·3	−2·9	−2·0	+1·2	+0·7	+0·1	+0·5	−0·1	+0·8	+0·9	+0·8	−0·2
SOUTH INDIA	Salem	+3·2	+4·3	0	+3·4	+3·9	+1·5	+1·7	−0·7	+0·3	+0·1	+0·6	+1·1	+1·6
	Chitaldroog	+3·1	−0·5	+0·6	+3·6	+2·8	+0·3	+0·8	+0·4	−1·2	−0·4	+0·9	+1·6	+1·0
	Bangalore	+3·7	+2·9	−0·2	+3·0	+3·0	+0·6	+0·4	−0·3	−1·1	+0·3	+1·4	+0·8	+1·2
	Hassan	+4·3	+1·4	+0·4	+3·3	+3·2	+2·1	+2·1	+1·2	−0·4	+0·4	+1·0	+1·4	+1·7
	Mysore	+3·2	+1·6	+0·6	+2·9	+1·9	+0·3	+0·2	−0·6	−2·1	−0·3	+0·8	+1·4	+0·9
	Madras	+0·6	+2·8	−1·1	+1·4	+2·1	−0·6	+0·9	−0·9	+0·2	+0·6	+0·4	0	+0·5
	Bellary	+4·0	+1·2	−0·1	+3·4	+2·4	−0·5	+0·9	+0·4	−0·3	+0·5	+2·0	+2·5	+1·3
	Waltair	+1·8	+0·2	−1·6	+0·5	+1·8	−1·4	−0·7	−0·8	+0·6	+0·1	+0·2	+1·2	+0·2
HILL STATION, BALUCHISTAN.	Quetta	−1·9	−5·1	−4·2	−2·5	+1·0	+0·3	+2·0	+3·1	+0·9	+2·4	+3·8	+2·8	+0·2
HILL STATIONS, NORTHERN INDIA.	Leh	−5·1	+2·8	+0·7	−1·4	+0·9	−2·3	−0·5	+0·4	+1·0	+1·8	+2·5	+3·6	+0·4
	Srinagar	−4·1	+0·8	−1·3	−1·8	+0·6	−1·1	+1·1	+3·3	+2·1	+4·1	+2·5	+3·7	+0·8
	Simla (Ridge)	−0·1	−3·3	−5·3	0	+2·1	−1·2	+0·4	−1·6	−0·1	−0·1	+1·8	+2·4	−0·5
	Chakrata	−1·2	−5·3	−3·9	+0·6	+2·9	−0·2	0	−0·6	+0·4	+1·3	+1·5	+2·1	−0·2
	Ranikhet	−2·2	−5·1	−3·3	+1·2	+3·6			Observatory		abolished.			?
	Katmandu	−1·4	+0·3	−1·2	+3·0	+3·5	+0·4	+1·4	−0·8	+2·0	+0·7	+1·7	−1·9	+0·6
	Darjeeling	−0·7	+0·5	−3·2	+1·7	+1·2	+0·3	+1·6	+0·4	+2·4	+0·7	+3·3	+2·1	+0·9

TABLE XI—*Departures from normal of monthly and annual mean air temperatures in 1906*—concld.

METEOROLOGICAL PROVINCE.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
		°	°	°	°	°	°	°	°	°	°	°	°	°
HILL STATIONS CENTRAL INDIA.	Mount Abu	−3·0	−7·1	−3·9	−2·2	+1·9	−0·9	+0·2	+0·5	−1·9	−0·7	+1·6	+0·3	−1·3
	Pachmarhi	−2·0	−1·5	−1·4	+0·8	+3·0	+0·9	+0·4	+0·9	−1·1	−1·4	−0·2	+1·2	0
	Chikalda	−0·4	−3·1	−2·1	+1·0	+2·8	−0·3	+1·1	+1·9	−1·0	0	+1·1	−0·8	0
EXTRA INDIAN STATIONS	Aden	+0·6	+1·4	+0·5	+0·2	+0·5	−0·5	−2·8	?	−2·9	−1·1	−0·7	−0·8	?
	Perim	+1·3	+0·5	+1·1	+0·4	+0·5	+1·8	+2·4	+1·6	+1·2	+0·6	−1·6	−0·9	+0·7
	Zanzibar	−0·4	+0·1	−1·2	−0·7	0	−0·4	+0·7	+0·3	+0·2	+0·6	+0·1	−1·6	−0·2
	Port Victoria (Seychelles)	+0·4	+2·3	+2·3	+1·1	+1·2	+1·5	+0·8	+0·1	−1·4	+0·3	+0·8	+0·4	+0·8
	Mauritius Pamplemousses	−0·3	+1·4	+1·3	+0·2	0	−0·3	+0·3	−0·4	−1·9	−0·9	−2·0	−1·7	−0·4

TABLE XII—*Geographical summary of the temperature departure data of Table II in the Monthly Weather Reviews of 1906.*

METEOROLOGICAL AREA.	Number of Stations.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
		°	°	°	°	°	°	°	°	°	°	°	°	°
North-West Himalayas	4—5	−2·5	−2·1	−2·6	−0·3	+2·1	−1·2	+0·3	+0·4	+0·9	+1·8	+2·1	+3·0	+0·2
Sikkim Himalayas and Nepal	2	−1·1	+0·4	−1·7	+2·4	+2·4	+0·3	+1·5	−0·2	+2·2	+0·7	+2·5	+0·1	+0·8
Punjab Plains	3	−1·7	−1·9	−3·9	−2·3	+3·1	−0·1	+1·9	−0·5	−1·2	+1·9	+2·9	+2·5	+0·1
Gangetic Plain	3	−1·4	−2·4	−3·6	−0·9	+2·7	+0·3	+0·5	−1·0	−0·3	+0·8	+1·2	+1·2	−0·2
Western Rajputana	4	−2·1	−4·8	−3·9	−1·4	+1·9	−0·6	+1·3	+0·7	−0·2	+0·9	+3·1	+1·9	−0·2
Eastern Rajputana and Central India.	1	−1·8	−3·7	−1·7	−2·2	+3·3	+0·6	+0·9	+2·4	−0·3	+2·1	+2·6	+1·5	+0·3
Narbudda Valley	1	−1·9	−1·9	−1·1	+0·1	+2·2	−1·2	−0·2	+0·5	−1·8	−0·9	+1·7	+2·0	−0·2
Chota Nagpur	1	−1·2	−2·6	−3·9	+0·7	+2·5	+2·4	+1·6	+0·4	+0·5	+0·1	+0·7	+1·3	+0·2
Lower Bengal	2	−0·3	−0·4	−3·1	+1·4	+1·7	+0·9	+1·3	+1·3	+0·5	+0·7	+1·2	+2·2	+0·6
Orissa	1	+0·6	+0·2	−2·3	+0·2	+0·2	−0·5	+0·6	+0·4	+0·5	+0·2	+0·7	+2·5	+0·3
Central Provinces (South) and Berar.	5	−0·5	−1·7	−1·6	+1·1	+2·4	−0·5	+0·2	+0·7	−1·1	−0·5	+1·0	+1·1	+0·1
Konkan	2	−0·8	−2·0	−2·3	−1·7	+0·9	+0·3	+0·1	+0·6	+0·3	+0·8	+1·7	+1·2	−0·1
Deccan, Hyderabad and Mysore	8	+2·9	+0·4	−0·2	+2·8	+2·4	+0·5	+0·8	+0·5	−0·7	0	+1·2	+1·5	+1·0
East Coast and Carnatic	3	+1·9	+2·4	−0·9	+1·8	+2·6	−0·2	+0·6	−0·8	+0·4	+0·8	+0·4	+0·8	+0·8
Arakan and Pegu	4	+0·6	+0·4	−1·4	+0·5	+1·2	+0·2	+0·8	+0·7	+0·2	+0·3	−0·1	+1·6	+0·4
Bay Islands	1	+0·5	−0·6	−0·4	+0·7	+1·8	−0·3	+0·5	0	+0·5	−0·7	−0·5	+0·4	+0·2
Extra Tropical India	21—22	−1·7	−2·3	−2·9	−0·5	+2·3	−0·1	+1·0	+0·3	+0·1	+1·1	+2·2	+1·9	+0·1
Tropical India	24	+1·2	0	−1·0	+1·4	+2·0	0	+0·6	+0·4	−0·3	0	+0·8	+1·3	+0·6
Whole India	45—46	−0·2	−1·1	−1	+0·5	+2·1	0	+0·8	+0·3	−0·1	+0·5	+1·4	+1·6	+0·3

TABLE XIII(*a*)—*Departure of the mean monthy maximum temperature from the normal in the eleven met eorological provinces of India in 1906.*

METEOROLOGICAL PROVINCE.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma Coast and Bay Islands	+0·9	−0·2	0	+0·6	+2·7	+0·1	+0·6	+2·1	0	−0·3	−0·2	+1·0	+0·6
Burma Inland	−2·8	−2·7	−2·4	+0·8	+5·1	−2·2	+0·1	+1·1	−0·2	−1·2	+0·6	+0·5	−0·3
Assam	−0·6	−2·8	−3·4	−1·1	+0·5	+0·8	+1·1	−2·4	+2·0	−0·7	−0·1	+0·9	−0·5
Bengal and Orissa	−1·5	−3·5	−4·6	+1·7	+1·1	+1·4	+1·2	−0·1	+1·2	+0·2	+0·8	+1·1	−0·1
Gangetic Plain and Chota Nagpur	−1·1	−5·2	−5·6	+0·3	+1·6	+2·0	+0·3	−0·3	+0·4	+0·5	+1·7	+1·1	−0·4
Upper Sub-Himalayas	−0·6	−5·3	−7·0	−2·6	+3·1	−0·4	+1·3	−1·9	−3·6	−0·4	+2·2	+0·4	−1·2
Indus Valley and North-West Rajputana	−0·5	−6·4	−6·0	−3·4	+2·4	−0·9	+2·3	+0·7	−1·8	+0·3	+3·8	+2·2	−0·6
East Rajputana, Central India and Gujarat	−1·5	−5·4	−4·2	−1·3	+2·2	−0·5	+0·1	+1·2	−2·4	+0·1	+2·9	+1·1	−0·6
Deccan	−0·2	−2·6	−2·5	+2·1	+3·1	0	−0·3	+1·3	−1·5	0	+1·6	+0·9	+0·2
West Coast	−1·6	−2·0	−1·0	−0·6	+0·3	+0·6	−0·2	−0·1	−0·1	+0·4	+0·6	−0·4	−0·3
South India	+1·9	+1·8	−0·5	+3·1	+2·8	+0·3	+0·5	−1·1	−0·3	−0·1	+0·7	−0·1	+0·8

TABLE XIII (*b*)—*Departure of mean monthly minimum temperature from the normal in the eleven meteorological provinces of India in 1906.*

METEOROLOGICAL PROVINCE.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma Coast and Bay Islands	+3·8	+1·5	−0·1	+1·3	+1·8	+0·5	+1·3	+1·2	+1·0	+0·3	+0·5	+2·2	+1·3
Burma Inland	+2·6	+2·1	−1·6	+1·0	+2·1	−0·4	+1·1	+0·5	+0·6	−0·3	+0·9	+2·9	+1·0
Assam	−0·3	+1·4	−1·5	+0·2	+0·1	−0·5	+0·9	−0·6	+1·1	−0·2	+0·5	−0·4	+0·1
Bengal and Orissa	+0·2	+3·5	−2·2	+1·1	+0·2	−0·1	+0·3	−0·1	+0·8	+0·5	+0·7	+2·0	+0·5
Gangetic Plain and Chota Nagpur	−1·4	+1·1	−2·4	−0·5	+1·5	+1·0	+0·5	−0·3	+0·4	+1·2	+0·1	+1·2	+0·2
Upper Sub-Himalayas	−3·1	+0·3	−2·0	−1·8	+3·1	+0·3	+1·4	+0·5	+0·5	+2·4	+1·7	+3·0	+0·5
Indus Valley and North-West Rajputana	−3·1	−0·4	−1·9	−2·1	+1·9	+0·3	+2·2	+1·3	+1·1	+3·1	+4·1	+3·7	+0·9
East Rajputana, Central India and Gujarat	−3·2	−0·5	−0·4	−1·0	+2·9	+0·4	+1·0	+0·3	+0·2	+1·4	+1·3	+1·4	+0·4
Deccan	+0·2	+0·2	−1·2	0	+2·1	+0·4	+0·6	+0·6	−0·2	−0·4	+0·8	+2·5	+0·5
West Coast	+1·2	−0·6	−1·6	−0·3	+1·0	+0·3	+0·2	+0·6	+0·3	+0·7	+1·0	+1·4	+0·4
South India	+3·7	+2·5	−0·1	+1·5	+1·6	+0·2	+0·6	−0·1	+0·3	+0·6	+0·3	+2·1	+1·1

TABLE XIII(c).—*Departure of the mean monthly temperature from the normal in the eleven meteorological provinces of India in 1906.*

METEOROLOGICAL PROVINCE.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma Coast and Bay Islands	+2·4	+0·7	—0·1	+1·0	+2·3	+0·3	+1·0	+1·7	+0·5	0	+0·1	+1·6	+1·0
Burma Inland	—0·1	—0·3	—2·1	+0·9	+3·6	—1·3	+0·6	+0·8	+0·2	—0·8	+0·7	+1·7	+0·3
Assam	—0·5	—0·7	—2·5	—0·5	+0·3	+0·1	+1·0	—1·5	+1·6	—0·4	+0·2	+0·2	—0·2
Bengal and Orissa	—0·7	—0·5	—3·4	+1·4	+0·7	+0·7	+1·0	—0·1	+1·0	+0·3	+0·8	+1·6	+0·2
Gangetic Plain and Chota Nagpur	—1·8	—2·1	—4·0	—0·1	+1·6	+1·5	+0·4	—0·8	+0·4	+0·9	+0·9	+1·2	—0·1
Upper Sub-Himalayas	—1·9	—2·5	—4·5	—2·2	+3·1	0	+1·4	—0·7	—1·6	+1·0	+2·0	+1·7	—0·4
Indus Valley and North-West Rajputana	—1·9	—3·4	—4·0	—2·8	+2·2	—0·3	+2·2	+1·0	—0·2	+1·7	+3·9	+3·0	+0·1
East Rajputana, Central India and Gujarat	—2·4	—3·0	—2·3	—1·1	+2·5	0	+0·6	+1·0	—1·1	+0·8	+2·2	+1·3	—0·1
Deccan	0	—1·2	—1·9	+1·0	+2·6	+0·2	+0·2	+0·9	—0·9	—0·2	+1·2	+1·7	+0·3
West Coast	—0·2	—1·3	—1·8	—0·5	+0·7	+0·4	0	+0·3	+0·1	+0·6	+0·8	+0·5	0
South India	+2·8	+2·1	—0·3	+2·3	+2·2	+0·3	+0·6	—0·6	0	+0·2	+0·5	+1·0	+0·9

TABLE XIV.—*Departures from the normal of the mean monthly and annual temperatures in 55 of the 57 meteorological districts or divisions of India in 1906.*

PROVINCE.	Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
		°	°	°	°	°	°	°	°	°	°	°	°	°
BURMA	1. Tenasserim	+3·3	+0·5	+0·8	+1·2	+2·1	+0·2	+0·8	+1·8	+0·6	—0·4	+0·2	+1·6	+1·1
	2. Lower Burma Deltaic	+2·4	+0·9	—0·7	+0·3	+2·1	+0·6	+1·0	+1·5	+0·5	+0·3	+0·5	+2·0	+1·0
	3. Central do.	+2·3	+1·3	—0·7	+2·0	+4·2	—0·1	+1·6	+2·1	+0·9	—0·3	+0·4	+2·0	+1·3
	4. Upper do.	—0·1	—0·6	—2·2	+0·9	+3·5	—1·5	+0·3	+0·7	+0·6	—0·9	+0·8	+1·6	+0·2
	5. Arakan	—1·2	+0·1	—2·1	+0·9	+1·5	—0·3	+0·5	+0·7	—0·6	+0·2	—1·1	+0·7	—0·1
BENGAL AND ASSAM	6. Eastern Bengal	—0·5	+0·1	—2·9	+1·7	+0·1	+0·6	+1·1	—0·6	+0·7	+0·5	+0·8	+1·9	+0·3
	7. Assam Surma	—0·7	—0·4	—2·3	—0·5	+0·1	+0·1	+0·8	—1·6	+1·5	—0·2	—0·1	+0·6	—0·2
	8. Do. Hills	...	...	...	...	...	...	...	...	...	...	...	...	...
	9. Do. Brahmaputra	—0·4	—0·9	—2·6	—0·5	+0·5	+0·2	+1·2	—1·5	+1·7	—0·6	+0·3	+0·1	—0·2
	10. Deltaic Bengal	—0·9	—0·7	—4·1	+1·4	+1·1	+0·9	+1·2	+0·6	+0·4	+0·4	+1·1	+1·7	+0·3
	11. Central do.	—1·3	—0·7	—4·7	+1·4	+0·9	+0·5	+1·0	—0·2	+1·2	+0·3	+1·2	+1·4	+0·1
	12. North do.	—0·5	—0·6	—2·5	+2·0	+1·4	+0·6	+0·9	—1·0	+2·6	0	+0·2	+1·1	+0·4
	13. Bengal Hills	—1·0	—0·4	—2·6	+1·6	+1·2	+0·2	+1·6	+0·4	+2·3	+0·8	+2·4	+2·2	+0·7
	14. Orissa	—0·1	—0·7	—3·0	+0·9	+1·2	+0·7	+0·8	+0·9	+0·8	+0·6	+0·6	+1·7	+0·4
	15. Chota Nagpur	—1·6	—2·4	—4·5	+0·3	+1·8	+2·8	+1·2	+0·5	+0·6	+0·5	+0·5	+1·3	+0·1
	16. South Bihar	—1·0	—2·0	—4·4	+0·3	+1·3	+1·4	+0·6	—0·6	+0·7	+1·1	+1·3	+1·4	0
	17. North do.	—1·2	—1·1	—3·8	+0·5	+0·3	+0·1	+0·4	—1·3	+1·9	+0·3	+0·2	+0·3	—0·3

TABLE XIV.—*Departures from the normal of the mean monthly and annual temperatures in 55 of the 57 meteorological districts or divisions of India in 1906.*—concld.

Province.	Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
UNITED PROVINCES	18. United Provinces East	−1·3	−1·9	−3·4	−1·1	+2·0	+1·2	+0·3	−0·3	−0·2	+0·9	+1·4	+1·3	−0·1
	19. South Oudh	−2·6?	−1·9	−3·1	+0·1	+1·7	+0·8	−0·5	−0·5	−0·2	+0·7	+1·3	+1·6	0*
	20. North do.	−0·6	−1·8	−3·6	+0·6	+0·5	+1·8	+0·4	−0·5	+1·5	+1·9	+1·0	+1·4	+0·2
	21. United Provinces Central	−0·9	−1·9	−3·6	−0·2	+3·6	+1·3	+0·6	+0·6	−1·2	+0·8	+1·5	+1·7	+0·2
	22. Do. West	−1·5	−2·4	−4·6	−2·0	+3·8	−0·8	+1·2	+0·2	−1·2	+1·0	+2·1	+1·1	−0·3
	23. Do. East Submontane	−1·3	−2·6	−4·6	+0·4	+1·4	+1·0	−0·4	−1·7	+0·7	+1·7	+1·1	+0·7	−0·3
	24. Do. West do.	−1·8	−2·7	−4·5	−1·0	+2·9	+0·3	+0·5	−1·5	−0·5	+0·8	+1·2	+1·2	−0·5
	25. Do. Hills	−2·3	−4·9	−4·1	+0·7	+3·4	+0·2	−0·1	−0·6	+0·6	+1·2	+2·4	+1·6	−0·2
PUNJAB	26. South-East Punjab	−2·2	−4·1	−5·3	−2·0	+3·9	−1·7	+1·0	+0·6	−1·6	+0·9	+1·7	+1·3	−0·6
	27. South do.	−3·2	−3·8	−5·6	−3·9	+2·7	−0·2	+2·5	+2·1	−1·6	+1·7	+3·2	+1·9	−0·4
	28. Central do.	−1·7?	−1·7	−4·8	−2·8	+3·8	+0·2	+3·2	+2·0	−2·1	+1·9	+3·3	+3·1	+0·6*
	29. Punjab Submontane	−1·6	−1·9	−4·3	−2·7	+2·9	+0·3	+1·3	−2·1	−2·0	+1·3	+2·1	+2·0	−0·4
	30. Do. Hills	−3·1	−1·8	−2·1	−2·6	−0·7	−2·6	+0·1	+0·7	−0·1	+1·7	+2·5	+2·6	−0·5
	31. West Punjab	−1·7	−2·7	−4·0	−3·6	+2·5	−0·2	+3·2	+1·5	−0·9	+2·3	+3·6	+3·4	+0·3
NORTH-WEST FRONTIER PROVINCE	32. North-West Frontier Province	−1·7	−3·0	−3·7	−2·9	+1·3	−0·2	+1·0	+0·1	−0·7	+1·9	+3·6	+3·5	−0·1
BOMBAY AND MALABAR COAST DISTRICTS (MADRAS)	33. Malabar	+0·9	+0·1	−0·2	+1·2	+0·5	+0·5	−0·5	−0·2	−0·2	+0·7	+0·3	+0·2	+0·3
	34. Madras South Central	+3·0	+1·7	+0·1	+2·9	+2·5	+1·2	+1·0	−0·8	−0·7	−0·3	−0·2	+0·5	+0·9
	35. Coorg	+1·4	−1·1	+0·3	+1·0	+1·2	+0·4	+0·3	+1·1	−1·5	+0·4	+0·4	+1·3	+0·4
	36. Mysore	+4·0	+1·5	+0·2	+3·3	+2·9	+0·7	+0·5	+0·3	−1·3	0	+1·1	+1·5	+1·2
	37. Konkan	−1·0	−2·5	−2·2	−1·8	+0·9	+0·5	+0·1	+0·7	+0·3	+0·5	+1·3	+0·8	−0·2
	38. Bombay Deccan	+0·8	−2·1	−1·4	+1·8	+1·6	+0·2	+0·2	+0·7	−0·7	+0·2	+1·2	+1·6	+0·3
	39. Hyderabad, North	...	...	...	...	...	...	...	...	...	...	...	...	...
	40. Khandesh	+0·1	−1·3	−0·8	+1·6	+3·1	−0·1	+0·5	+0·3	−0·4	−0·9	+2·7	+2·4	+0·6
CENTRAL PROVINCES AND BERAR	41. Berar	−0·1	−1·0	−1·0	+1·0	+2·4	−0·8	+0·2	+1·2	−1·5	+0·1	+2·1	+2·3	+0·4
	42. Central Provinces West	−2·1	−1·4	−2·0	0	+2·2	−0·5	−0·4	+0·9	−2·1	−1·5	+0·6	+1·3	−0·4
	43. Do. Central	−0·8	−0·8	−2·3	0	+3·4	+0·5	+0·4	+1·5	−1·1	−0·2	+1·5	+2·0	+0·3
	44. Do. East	0	−1·1	−4·8	−0·3	+2·9	+1·1	−0·2	+0·6	−0·9	−0·7	−0·8	+1·2	−0·3
BOMBAY (NORTH)	45. Gujarat	−2·5	−3·7	−1·5	−1·0	+1·1	−0·2	+0·1	0	−1·4	+0·5	+2·4	+0·9	−0·4
	46. Kathiawar and Cutch	−2·4	−3·2	−3·0	−1·6	+0·7	−0·6	+0·7	+0·2	−0·8	+0·1	+1·8	+1·3	−0·6
	47. Sind	−1·3	−3·9	−3·5	−1·5	+2·0	−0·2	+2·0	+0·9	+1·3	+1·6	+4·7	+3·5	+0·5
	48. Baluchistan Hills	−1·9	−6·0	−3·6	−5·6	−0·8	−0·6	+1·4	+3·3	+0·7	+3·0	+3·0	+3·0	−0·3
RAJPUTANA AND CENTRAL INDIA	49. Central India East	−2·5	−1·3	−1·9	−0·6	+3·4	+0·9	+0·2	+1·0	−1·4	−0·3	+1·6	+1·2	0
	50. Rajputana East, Central India West	−2·8	−3·2	−2·0	−1·6	+3·8	+0·6	+1·2	+2·9	−0·5	+2·8	+3·0	+1·7	+0·5
	51. West Rajputana	−4·5	−4·4	−4·4	−3·2	+3·1	−0·7	+2·4	+1·5	−1·6	+0·9	+3·5	+1·1	−0·5
MADRAS	52. East Coast North	+2·3	+1·2	−1·6	+0·7	+1·3	−0·3	0	+0·2	+1·1	+0·9	+0·4	+1·5	+0·7
	53. Hyderabad South	+2·4	−0·6	−0·9	+3·5	+2·6	−0·1	+0·1	+0·9	+0·3	+0·6	+1·0	+1·8	+1·0
	54. Madras Central	+3·6	+1·3	−0·7	+3·9	+2·8	−0·7	+0·4	+0·1	−0·4	+0·8	+1·7	+1·7	+1·2
	55. East Coast Central	+2·0	+2·0	−1·3	+1·1	+1·6	−1·0	+0·6	−0·7	+0·7	+0·6	+0·5	+0·2	+0·5
	56. East Coast South	+1·9	+3·5	−0·3	+1·8	+2·3	+0·8	+0·9	−1·3	+0·9	+0·4	+0·5	+0·8	+1·0
	57. Madras South	+2·0	+2·9	+0·7	+2·2	+1·4	+0·8	+1·0	−1·9	+0·1	−0·6	−0·5	+0·6	+0·7

*Mean of 11 months.

In the discussion of the meteorology of India, during the year 1906, the year is divided into four seasons according to the following arrangement:—

1st.—The cold weather period, including the months of January and February.

2nd.—The hot weather period, including the months of March, April and May.

3rd.—The period of the south-west monsoon rains proper, including the months of June, July, August and September.

4th.—The period of the retreating south-west monsoon, including the months of October, November and December.

The following is a summary of the most important temperature conditions during the year:—

I.—The cold weather period.—Over a large part of the country the first three weeks of January were characterized by the prevalence of abnormally fine and dry weather; from January 22nd to the end of February however a series of storms of the usual cold weather type passed in rapid succession across northern India causing unusually heavy rain in the plains and much snow in the mountain regions to the north and west of upper India. The advance of each storm was as usual preceded by a warm and followed by a cool wave, but owing to the shortness of the interval separating the storms these waves neutralized each other to some extent and thus were not of any great intensity.

The greatest cold of the year in northern and central India was experienced during the first seventeen days of January, when well marked anticyclonic conditions obtained there; the lowest temperatures then recorded were however by no means remarkable:—

(*a*) Except in Madras and Mysore the mean daily maximum temperature of the period January and February was lower than usual over the whole of the country, the deficiency being much larger in February than in January. The deficiency exceeded 2° in amount over the whole of northern and central India, and was absolutely greatest in Chota Nagpur where it averaged 5°.

Province or Division.	Departure of Maximum temperature from normal in		
	January.	February.	Cold weather period, January and February.
	°	°	°
Burma	0	−1·1	−0·6
Assam	−0·6	−2·8	−1·7
Bengal	−1·5	−3·6	−2·6
Orissa	−1·6	−3·1	−2·4
Bihar	−1·1	−4·8	−3·0
Chota Nagpur	−3·3	−6·5	−4·9
United Provinces	−0·2	−4·5	−2·4
Punjab	−0·7	−5·6	−3·2
North-West Frontier Province	−0·9	−6·5	−3·7
Sind	+0·1	−6·4	−3·2
Rajputana	−1·6	−6·6	−4·2
Gujarat	−1·9	−5·3	−3·6
Central India	−1·3	−4·5	−2·9
Central Provinces	−0·9	−3·4	−2·2
Berar	+0·2	−1·9	−0·9
West Coast	−1·6	−2·0	−1·8
Bombay Deccan	+0·3	−2·0	−0·9
Hyderabad	+0·6	−1·0	−0·2
Mysore	+2·8	+2·3	+2·6
Madras Coast	+1·3	+1·5	+1·4
Madras Deccan	+1·6	+0·2	+0·9
South India	+2·1	+2·8	+2·5

(*b*) The departures from normal of minimum temperature were less strongly marked than those of maximum temperature. On the mean of the period the night temperature was more or less above normal in Burma, northeast India, and by far the greater part of the Peninsula, while it was in defect over the rest of the country.

Province or Division.	Departure of Minimum temperature from normal in		
	January.	February.	Cold weather period, January and February.
	°	°	°
Burma	+3·8	+1·9	+2·9
Assam	−0·3	+1·4	+0·6
Bengal	−0·1	+2·7	+1·3
Orissa	+1·4	+1·7	+1·6
Bihar	−1·1	+1·8	+0·4
Chota Nagpur	+0·1	+1·7	+0·9
United Provinces	−2·4	+0·4	−1·0
Punjab	−3·0	+0·6	−1·2
North-West Frontier Province	−2·4	+1·0	−0·7
Sind	−2·7	−1·4	−2·1
Rajputana	−5·0	−0·7	−2·9
Gujarat	−3·0	−1·4	−2·2

Province or Division.	Departure of Minimum temperature from normal in		
	January.	February.	Cold weather period, January and February.
	°	°	°
Central India	−3·6	+0·9	−1·4
Central Provinces	−1·1	+1·3	+0·1
Berar	+0·4	−0·1	−0·3
West Coast	+1·2	−0·6	+0·3
Bombay Deccan	+0·7	−1·6	−0·5
Hyderabad	+4·1	0	+2·1
Mysore	+4·2	+0·6	+2·4
Madras Coast	+2·9	+3·4	+3·2
Madras Deccan	+5·5	+2·3	+3·9
South India	+2·9	+3·1	+3·0

(*c*) Mean daily temperature was lower than usual throughout India, excepting Burma, Hyderabad, Mysore and Madras where weather was warmer than usual. The region of maximum abnormal coolness was defined by Rajputana and Gujarat where temperature was about 8° below normal.

Province or Division.	Departure of mean temperature from normal in		
	January.	February.	Cold weather period, January and February.
	°	°	°
Burma	+1·9	+0·4	+1·2
Assam	−0·5	−0·7	−0·6
Bengal	−0·8	−0·5	−0·7
Orissa	−0·1	−0·7	−0·4
Bihar	−1·1	−1·5	−1·3
Chota Nagpur	−1·6	−2·4	−2·0
United Provinces	−1·3	−2·1	−1·7
Punjab	−1·9	−2·5	−2·2
North-West Frontier Province	−1·7	−2·8	−2·3
Sind	−1·3	−3·9	−2·6
Rajputana	−3·3	−3·7	−3·5
Gujarat	−2·5	−3·4	−3·0
Central India	−2·5	−1·8	−2·2
Central Provinces	−1·0	−1·1	−1·1
Berar	−0·1	−1·0	−0·6
West Coast	−0·2	−1·3	−0·8
Bombay Deccan	+0·5	−1·8	−0·7
Hyderabad	+2·4	−0·5	+1·0
Mysore	+3·5	+1·5	+2·5
Madras Coast	+2·1	+2·5	+2·3
Madras Deccan	+3·6	+1·3	+2·5
South India	+2·5	+3·0	+2·8

(*d*) At stations on the southern face of the Himalayas, temperature was as much below normal as in the adjacent plains:—

Station.	Departure from normal of period, January and February.		
	Maximum temperature.	Minimum temperature	Mean temperature.
	°	°	°
Cherat	−3·3	−1·4	−2·4
Murree	−5·4	−5·7	−5·6
Kailang	−4·5	−4·1	−4·3
Simla	−1·8	−2·2	−2·0
Chakrata	−3·8	−2·6	−3·2
Ranikhet	−4·6	−3·2	−3·9
Darjeeling	−0·3	−1·1	−0·7

(*e*) The low temperature was almost as marked in Kashgar, Kashmir, Afghanistan, Baluchistan and Persia as in the plains of northern India, and was accordingly determined by conditions extending over a very large area.

Station.	Departure from normal of period, January and February.		
	Maximum temperature.	Minimum temperature	Mean temperature.
	°	°	°
Baghdad	−0·3	−1·4	−0·9
Ispahan	−2·2	+0·9	−0·7
Bushire	−1·5	−0·5	−1·0
Jask	−1·2	+0·1	−0·6
Chaman	−4·4	−2·5	−3·5
Quetta	−5·1	−2·7	−3·9
Kabul	−6·5	−2·6	−4·6
Gilgit	−1·9	−0·5	−1·2
Srinagar	−3·2	−0·5	−1·9
Kashgar	+0·1	−1·9	−0·9
Leh	−1·6	−1·1	−1·4

II.—The hot weather period.—The meteorology of March was similar in all its more important features to that of February and accordingly the commencement of the hot weather occurred in the first week in April or about a month later than usual. Weather was on the other hand abnormally dry in April and May except in the western Himalayas where snow fell in larger quantities than usual and produced great accumulations.

(*a*) Maximum temperature was lower than usual over practically the whole of the country in March and in northwest and Central India, Assam and the west coast districts in April: it was on the other hand above normal throughout the Indian region in May. On the average of the whole period March to May the day temperature exceeded the normal over Burma and nearly the whole of the Peninsula and was below normal in northern India. The excess was largest in Mysore (3°·4), and the defect in the Punjab and North-West Frontier Province (3°).

Province or Division.	Departure of Maximum temperature from normal in.			
	March.	April.	May.	Period, March to May.
	°	°	°	°
Burma	−0·9	+0·7	+3·6	+1·1
Assam	−3·4	−1·1	+0·5	−1·3
Bengal	−4·8	+1·3	+1·2	−0·6
Orissa	−3·6	+1·2	+1·8	−0·2
Bihar	−5·3	+1·4	+0·7	−1·1
Chota Nagpur	−6·5	+0·5	+2·1	−1·
United Provinces	−5·7	−0·5	+2·5	−1·2
Punjab	−7·1	−3·6	+2·8	−2·7
North-West Frontier Province	−6·1	−3·7	+0·9	−3·0
Sind	−5·0	−4·6	+2·8	−1·3
Rajputana	−5·3	−3·1	+3·3	−1·7
Gujarat	−3·8	−0·7	+1·1	−1·1
Central India	−3·7	−0·8	+2·9	−0·5
Central Provinces	−3·4	+0·6	+3·0	−0·3
Berar	−1·3	+2·3	+3·0	+1·3
West Coast	−1·0	−0·6	+0·4	−0·4
Bombay Deccan	−0·4	+3·5	+2·2	+2·1
Hyderabad	−0·6	+4·2	+2·8	+2·1
Mysore	+0·7	+5·0	+4·4	+3·4
Madras Coast	−1·0	+1·3	+1·9	+0·9
Madras Deccan	−0·6	+4·2	+3·4	+2·3
South India	−0·6	+3·1	+2·5	+1·7

(*b*) The departures from normal of minimum temperature were similar in their general character to those of the day temperature; they were however in the great majority of divisions less than 1° in amount and approached 2° only in the case of the Madras Deccan (+1°·7).

Province or Division.	Departure of minimum temperature from normal in			
	March	April	May	Period, March to May.
	°	°	°	°
Burma	−0·7	+1·3	+1·9	+0·8
Assam	−1·5	+0·2	+0·1	−0·4
Bengal	−2·2	+1·4	+0·8	−0·2
Orissa	−2·3	+0·5	+0·6	−0·4
Bihar	−2·8	+0·7	+0·7	−0·9
Chota Nagpur	−2·6	+0·1	+1·4	−0·6
United Provinces	−2·1	+0·7	+2·7	0
Punjab	−1·8	−2·2	+3·6	−0·1
North-West Frontier Province	−1·3	−2·1	+1·7	−0·6
Sind	−1·8	−1·1	+1·2	−0·6
Rajputana	−0·6	+1·2	+3·7	+0·8
Gujarat	−0·9	+1·9	+0·6	+0·7
Central India	0	−0·4	+3·9	+1·2
Central Provinces	−1·1	−0·8	+2·6	+0·2
Berar	−0·4	+0·3	+1·8	+0·4
West Coast	−1·6	−0·3	+1·0	−0·3
Bombay Deccan	−2·0	0	+0·9	−0·4
Hyderabad	−0·9	+2·7	+2·3	+1·4
Mysore	−0·3	+1·6	+1·3	+0·9
Madras Coast	−0·1	+1·0	+1·3	+0·7
Madras Deccan	−0·7	+3·5	+2·2	+1·7
South India	+0·5	+1·4	+1·9	+1·3

(*c*) On the average of the period mean temperature was slightly lower than usual in the Punjab and North-West Frontier Province, and higher in Hyderabad, Mysore and the interior of Madras; over the rest of the country the mean temperature did not depart appreciably from the normal.

Province or Division.	Departure of mean temperature from normal in			
	March	April	May	Period, March to May.
	°	°	°	°
Burma	−0·8	+1·0	+2·8	+1·0
Assam	−2·5	−0·5	+0·3	−0·9
Bengal	−3·5	+1·6	+0·8	−0·4
Orissa	−3·0	+0·9	+1·2	−0·3
Bihar	−4·1	+0·4	+0·7	−1·0

Province or Division.	Departure of mean temperature from normal in			
	March.	April	May	Period, March to May.
	°	°	°	°
Chota Nagpur	−4·6	+0·3	+1·8	−0·8
United Provinces	−3·9	−0·6	+2·6	−0·6
Punjab	−4·5	−3·0	+2·9	−1·5
North-West Frontier Province	−3·7	−2·9	+1·3	−1·8
Sind	−3·4	−1·5	+2·0	−1·0
Rajputana	−3·0	−2·2	+3·5	−0·6
Gujarat	−2·4	−1·3	+0·9	−0·9
Central India	−1·9	−0·6	+3·4	+0·3
Central Provinces	−2·8	−0·1	+2·8	0
Berar	−0·9	+1·0	+2·4	+0·8
West Coast	−1·3	−0·5	+0·7	−0·4
Bombay Deccan	−1·2	+1·8	+2·1	+0·9
Hyderabad	−0·9	+3·5	+2·6	+1·7
Mysore	+0·2	+3·3	+2·9	+2·1
Madras Coast	−0·6	+1·4	+1·6	+0·8
Madras Deccan	−0·7	+3·9	+2·8	+2·0
South India	−0·1	+2·3	+2·2	+1·5

It is worthy of notice that notwithstanding the prolongation of the winter conditions temperature was in decided excess in northwest and central India in May.

(*d*) Temperature was as low in Kashmir, Afghanistan, Baluchistan and Persia as in the plains of upper India. Kashgar and Baghdad were however apparently unaffected by these low temperature conditions.

Station.	Departure from normal of period, March to May.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Baghdad	+2·1	−0·5	+0·8
Ispahan	−6·2	−1·9	−4·1
Bushire	−2·1	−0·7	−1·4
Jask	−1·9	−1·4	−1·7
Chaman	−5·6	−3·8	−4·7
Quetta	−2·1	−1·0	−1·6
Kabul	−3·0	−3·3	−3·2
Gilgit	−3·7	−1·6	−2·6
Srinagar	−2·7	+0·5	−1·1
Kashgar	+1·2	−0·7	+0·3
Leh	−0·3	+0·1	−0·1

(*e*) The highest temperatures of the year were observed about the middle of May in the central parts of the country, and towards the end of May in the Punjab, the United Provinces and Sind; they were however by no means remarkable.

(*f*) In Kashmir and Baluchistan the hot weather conditions were not only feebly marked but also attained their maximum intensity several weeks later than usual.

III.—The South-west monsoon period.—As usual during the monsoon period the temperature conditions over by far the greater part of the country were determined by the abnormalities of rainfall. The monsoon rains were late in being established, particularly in the field of the Arabian Sea current. As measured by its rain-producing capacity the Bay current was rather weak in June and September, of normal intensity in July and more vigorous than usual in August. The Arabian Sea current on the other hand was more active than usual during July and more or less below its normal intensity in the other three months: it was also during the first three months of the period directed more largely than usual to the Peninsula with the result that northwest India was deprived of its usual share of rainfall; in September the activity of the current was displayed chiefly near the northwestern margin of its field. The final retreat of the monsoon currents from upper India occurred on the 16th of September, which is the normal date.

(*a*) On the mean of the period temperature agreed closely with the normal over practically the whole of the country, departures from normal being less than half a degree in amount over at least three fourths of the area.

Province or Division.	Departure from normal of period, June to September.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Burma	+0·3	+0·8	+0·6
Assam	+0·4	+0·2	+0·3
Bengal	+1·0	+0·3	+0·6
Orissa	+0·9	+0·6	+0·8
Bihar	+0·6	+0·2	+0·4
Chota Nagpur	+1·7	+0·8	+1·3
United Provinces	−0·3	+0·5	+0·1
Punjab	−0·9	+1·2	+0·1
North-West Frontier Province	−1·1	+1·2	+0·1
Sind	+0·8	+1·2	+1·0
Rajputana	+0·5	+1·1	+0·8
Gujarat	−0·7	+0·2	−0·3
Central India	−0·5	+0·9	+0·2
Central Provinces	−0·3	+0·3	0

Province or Division.	Departure from normal of period, June to September. Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Berar	−0·6	+0·1	−0·2
West Coast	+0·1	+0·4	+0·2
Bombay Deccan	+0·1	+0·1	+0·1
Hyderabad	−0·1	+0·7	+0·3
Mysore	−0·2	+0·2	+0·1
Madras Coast	+0·1	+0·3	+0·2
Madras Deccan	−0·1	−0·2	−0·2
South India	−0·5	+0·4	−0·1

(*b*) In the mountain zone bordering upper India as well as in Persia temperature varied slightly but somewhat irregularly from the normal.

Station.	Departure from normal of period, June to September. Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Baghdad	+3·6	+0·2	+1·9
Ispahan	−0·6	+2·1	+0·8
Bushire	−2·3	−1·0	−1·7
Jask	−0·8	+0·4	−0·2
Chaman	−1·0	−0·3	−0·7
Quetta	+0·8	+2·3	+1·6
Kabul	+1·6	+1·1?	+1·4?
Gilgit	+0·6	−0·3	+0·2
Srinagar	+1·3	+1·6	+1·5
Kashgar	+2·0	+0·2	+1·1
Kailang	−0·7	−0·8	−0·8
Leh	−1·3	+0·6	−0·4

IV.—The retreating south-west monsoon period.—This period was remarkably dry over a large part of the country. The retreating monsoon current was weaker than usual in October and November and was determined chiefly to Bengal and Assam; it was on the other hand unusually active during December and gave abundant rain throughout the Peninsula. Monsoon winds withdrew finally from the Bay at the end of December, which is about a fortnight later than usual. In northwestern India the weather was on the whole more settled than usual and there were no indications of an early winter.

(*a*) Temperature on the mean of the period was higher than usual over the whole of northern India with the exception of Assam; the excess was largest in the Punjab, the North-West Frontier Province, Sind and Rajputana where it averaged nearly 3° in amount and was on the whole more marked in the night than in the day temperature.

(*b*) Over Burma and the greater part of the Peninsula the temperature conditions did not differ much from the normal; the day temperature there was approximately normal and the night temperature in slight excess.

Province or Division.	Departure from normal of period, October to December. Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Burma	+0·1	+1·2	+0·7
Assam	0	−0·1	−0·1
Bengal	+0·8	+1·0	+0·9
Orissa	+0·4	+1·5	+1·0
Bihar	+1·2	+0·3	+0·8
Chota Nagpur	0	+1·5	+0·8
United Provinces	+1·1	+1·2	+1·2
Punjab	+1·2	+3·3	+2·3
North-West Frontier Province	+1·3	+4·7	+3·0
Sind	+2·8	+3·7	+3·3
Rajputana	+2·1	+2·3	+2·2
Gujarat	+1·5	+0·7	+1·1
Central India	+0·8	+0·8	+0·8
Central Provinces	+0·5	+0·6	+0·6
Berar	+1·7	+1·3	+1·5
West Coast	+0·2	+1·0	+0·6
Bombay Deccan	+1·2	+1·0	+1·1
Hyderabad	+0·4	+1·5	+1·0
Mysore	+0·7	+1·0	+0·9
Madras Coast	+0·4	+1·0	+0·7
Madras Deccan	+0·7	+1·7	+1·2
South India	−0·8	+0·5	−0·2

(*c*) The temperature conditions in Kashmir, Afghanistan, Baluchistan and Persia were similar in character to those of upper India.

Station.	Departure from normal of period, October to December.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Baghdad	+0·9	+2·8	+1·9
Bushire	+0·3	+1·7	+1·0
Jask	+0·6	+1·9	+1·3
Chaman	+2·8	+2·0	+2·4
Quetta	+3·6	+2·5	+3·1
Kabul	?	+1·2	?
Gilgit	+4·8	+2·6	+3·7
Srinagar	+5·3	+1·9	+3·6
Kashgar	+3·6	+2·5	+3·1
Kailang	+3·7	+2·5	+3·1
Leh	+3·1	+2·6	+2·9

The year.—(*a*) Temperature was well below normal during February and March, the months of unusually heavy winter precipitation, normal in January, June and September, and more or less in excess in all other months. The excess was less than 1° in average amount except in May, November and December when it ranged between 1½° and 2°. A comparison of the temperature departures with those of cloud, humidity and rainfall would show that the former were determined chiefly by the latter.

Month.	Departure from normal of mean temperature in		
	Extra tropical India (from Table II).	Tropical India (from Table II).	Whole India (from Table II).
	°	°	°
January	−1·7	+1·2	−0·2
February	−2·3	0	−1·1
March	−2·9	−1·0	−1·9
April	−0·5	+1·4	+0·5
May	+2·3	+2·0	+2·1
June	−0·1	0	0
July	+1·0	+0·6	+0·8
August	+0·3	+0·4	+0·3
September	+0·1	−0·3	−0·1
October	+1·1	0	+0·5
November	+2·2	+0·8	+1·4
December	+1·9	+1·3	+1·6
Whole year	+0·1	+0·6	+0·3

(*b*) The mean temperature of the whole Indian area was 0·3° above normal; the excess although common to practically the whole country was decidedly more marked in tropical than in extra-tropical India.

(*c*) The fall of temperature which commenced in 1903 and was continued during the next two years was succeeded by a rapid rise in 1906 which was on the whole a warmer year than usual. This change in the temperature conditions is illustrated by the following table giving the mean departure and progressive change of the mean actual temperature of the past 17 years:—

Year.	Number of stations.	Mean departure.	Progressive change.
		°	°
1890	85	+0·13	+0·73
1891	72	−0·03	−0·16
1892	74	+0·66	+0·69
1893	68	−1·33	−1·99
1894	66	+0·11	+1·44
1895	69	+0·35	+0·24
1896	67	+1·30	+0·95
1897	75	+0·90	−0·40
1898	75	+0·65	−0·25
1899	52	+0·78	+0·13
1900	50	+1·17	+0·39
1901	50	+0·63	−0·54
1902	49	+1·06	+0·43
1903	46	+0·18	−0·88
1904	46	−0·03	−0·21
1905	46	−0·42	−0·39
1906	45	+0·33	+0·75

The connection of these figures with the solar activity as exhibited in the number of sunspots is fairly conspicuous.

Atmospheric pressure.

Full information regarding the barometers in use at Indian observatories and of the methods of reducing the observations and obtaining the mean daily and monthly pressures will be found in the Annual Reports of previous years (*e. g.*, pages 58 and 59 of the Report for 1890) and also in pages 6 and 7 of the Monthly Review for January, 1906.

In Table II of each Monthly Review the monthly mean daily pressure (corrected for temperature) is given in the seventh column and the departure from the normal in the eighth column. The normal monthly mean pressure values have been recalculated for all first and second class stations, data up to 1889 being utilized, and will be found in pages 66-69 of the "Indian Meteorological Memoirs," Vol. XVII. The departure data in the Monthly Reviews for the year 1906 were obtained by a comparison of the actual monthly means with these normals, and the departures of the monthly pressure of all first and second class stations in 1906 are given in Table XV. The figures in the seventh and eighth columns of Table II appended to the present Annual Summary, giving data of the mean pressure of the air and its departure from the normal for all first and second class stations, are comparable with the corresponding data of previous years published in the Annual Reports and Summaries.

In the ninth column of Table II in each Monthly Review the mean pressures reduced to sea level and corrected to constant gravity (Lat. 45) are given. These are not directly comparable with the sea-level pressure values of the years 1875-90 as given in the Annual Reports for those years, for previous to 1891 no correction was made to reduce the monthly pressure means to standard gravity.

In Table I of each Monthly Review, and also in that appended to the Annual Summary, the pressure data are given for a fixed hour (*viz.*, 8 hrs. local time) of the day. The fourth column in that table gives the mean 8 hrs. pressures for the month corrected for temperature. In the fifth column are given the departures of these mean 8 hrs. pressures from the normal pressures.

TABLE XV.—*Departures from normal of monthly and annual mean pressures in 1906.*

Meteorological Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		"	"	"	"	"	"	"	"	"	"	"	"	"
Burma Coast and Bay Islands.	Port Blair	+·005	—·006	+·084	+·014	—·011	+·017	—·021	+·021	—·031	+·006	+·036	—·007	+·005
	Rangoon	—·014	—·030	+·036	—·008	—·044	+·017	—·026	+·029	—·019	+·084	+·026	—·023	—·001
	Diamond Island	—·012	—·032	+·023	+·001	—·032	0	—·023	+·030	—·042	0	+·024	—·021	—·007
	Akyab	—·004	—·023	+·033	+·005	—·031	+·010	—·023	+·036	—·044	+·002	+·019	—·029	—·001
Bengal and Orissa.	Chittagong	+·006	—·021	+·051	—·030	—·050	—·001	—·031	+·065	—·057	+·002	+·027	—·022	—·005
	Calcutta (Alipore)	+·004	—·015	+·069	—·038	—·051	+·023	—·024	+·066	—·040	+·015	+·017	—·015	+·001
	Saugor Island	+·012	—·018	+·072	—·029	—·048	+·018	—·017	+·073	—·041	+·015	+·028	—·008	+·005
	False Point	+·006	—·024	+·067	—·023	—·043	+·013	—·020	+·068	—·035	+·015	+·023	—·013	+·003
Gangetic Plain and Chota Nagpur.	Hazaribagh	—·003	—·031	+·047	—·020	—·048	+·017	—·031	+·052	—·032	+·022	+·012	—·013	—·002
	Allahabad	—·005	—·031	+·039	—·014	—·057	+·014	—·035	+·048	—·042	—·005	+·005	—·023	—·007
Upper Sub-Himalayas.	Dehra Dun	+·006	—·032	+·045	—·023	—·067	+·012	—·053	+·030	—·032	+·005	+·009	—·007	—·009
	Roorkee	+·005	—·024	+·059	—·023	—·067	+·021	—·038	+·044	—·022	+·007	+·007	+·003	—·002
	Lahore	+·011	—·055	+·064	+·003	—·063	+·015	—·048	+·020	—·023	+·003	0	—·024	—·008
	Ludhiana	—·009	—·057	+·049	—·019	—·070	+·019	—·043	+·036	—·029	+·008	+·005	—·011	—·010
Indus Valley and North-West Rajputana.	Peshawar	+·011	—·055	+·043	—·009	—·040	+·008	—·029	+·019	—·029	—·011	+·001	—·11	—·009
	Jacobabad	+·035	—·026	+·085	+·024	—·026	+·027	—·032	+·017	—·004	+·030	+·027	+·002	+·013
	Kurrachee	+·038	—·029	+·057	+·037	—·008	+·015	—·030	+·020	—·023	+·022	+·020	—·016	+·009

TABLE XV.—*Departure from normal of monthly and annual mean pressures in 1906*—concld.

METEOROLOGICAL PROVINCE.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR
		in.	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*
EAST RAJPUTANA, CENTRAL INDIA AND GUJARAT.	Jaipur	+·012	—·039	+·045	+·018	—·035	+·021	—·021	+·041	—·029	+·018	+·019	—·007	+·004
	Deesa	+·023	—·029	+·039	+·027	—·016	+·014	—·027	+·017	—·014	+·015	+·018	—·011	+·005
DECCAN	Belgaum	+·005	—·021	+·030	+·012	+·020	+·013	—·023	—·004	+·002	+·013	+·039	—·016	+·006
	Sholapur	—·011	—·048	+·020	—·004	+·002	+·008	—·032	+·005	—·006	+·009	+·035	—·021	—·004
	Akola	—·013	—·059	+·022	—·012	—·027	—·004	—·033	+·016	—·009	+·014	+·023	—·002	—·007
	Buldana	—·032	—·042	—·007	—·003	—·010	+·010	—·030	+·009	—·011	+·013	+·020	—·035	—·010
	Khandwa	+·008	—·044	+·016	+·010	—·015	+·007	—·027	+·020	—·012	+·016	+·023	—·022	—·002
	Nagpur	+·001	—·044	+·045	+·004	—·012	+·013	—·018	+·039	—·001	+·027	+·036	—·011	+·007
	Hyderabad (Deccan.)	—·007	—·048	+·025	—·009	—·003	+·007	—·020	+·026	+·002	+·018	+·041	—·021	+·001
WEST COAST.	Bombay	+·010	—·011	+·034	+·018	+·011	+·018	—·035	—·002	0	+·013	+·025	—·023	+·005
	Karwar	+·017	—·002	+·039	+·031	+·021	+·017	—·027	—·002	+·009	+·004	+·040	—·018	+·010
SOUTH INDIA.	Salem	—·002	—·051	+·028	+·019	—·004	—·003	—·030	—·006	—·011	+·001	+·027	—·035	—·006
	Chitaldroog	—·003	—·023	+·030	+·003	+·005	+·022	—·027	—·002	+·002	+·010	+·022	—·032	0
	Bangalore	—·008	—·033	+·027	+·012	+·006	—·003	—·034	—·009	+·006	—·001	+·029	—·028	—·004
	Hassan	+·009	—·009	+·037	+·025	+·022	+·033	—·010	+·001	+·015	+·013	+·027	—·020	+·012
	Mysore	—·012	—·025	+·026	+·006	+·001	+·014	—·029	—·013	—·001	—·002	+·017	—·034	—·004
	Madras	—·017	—·046	+·040	—·007	—·010	+·002	—·031	+·003	—·011	+·003	+·031	—·047	—·008
	Bellary	—·027	—·053	+·016	—·021	—·017	—·009	—·048	—·013	—·015	0	+·022	—·043	—·017
	Waltair	—·004	—·034	+·064	—·004	—·030	+·019	—·016	+·058	—·023	+·001	+·043	—·019	+·005
HILL STATION BALUCHISTAN.	Quetta	+·025	—·082	+·008	+·002	+·008	+·004	—·009	—·004	—·021	+·007	+·036	+·005	—·002
HILL STATIONS, NORTHERN INDIA.	Leh	+·002	—·115	—·048	—·053	—·005	—·003	—·026	—·004	+·005	+·013	+·042	+·008	—·016
	Srinagar	+·043	—·090	+·022	—·033	—·009	+·028	—·015	0	—·029	—·004	+·008	—·026	—·009
	Simla	—·008	—·066	+·002	—·012	—·016	+·008	—·014	+·026	—·031	+·005	+·031	—·007	—·007
	Chakrata	—·016	—·059	—·001	—·020	—·021	+·025	—·015	+·027	—·031	+·009	+·024	—·012	—·006
	Rajpikhet	0	—·049	+·021	—·021	—·033	Observatory abolished				...	...	...	?
	Katmandu	+·003	—·029	+·029	—·041	—·015	+·032	—·013	+·038	—·022	+·017	+·025	+·019	+·004
	Darjeeling	—·014	—·048	+·005	—·039	—·020	+·024	—·013	+·022	—·014	+·005	+·016	—·002	—·007
HILL STATIONS, CENTRAL INDIA.	Mount Abu	—·002	—·068	+·011	+·007	—·002	+·012	—·020	+·019	—·029	+·014	+·030	—·006	—·003
	Pachmarhi	—·003	—·053	+·016	+·010	—·011	+·010	—·025	+·029	—·025	+·018	+·025	—·013	—·002
	Chikalda	—·037	—·076	+·003	—·001	—·002	+·015	—·025	+·021	—·025	+·012	+·012	—·033	—·011
E. A. INDIAN STATIONS.	Aden	+·024	—·038	+·030	+·029	+·026	0	—·004	+·027	+·007	+·019	+·043	+·024	+·016
	Perim	+·032	+·020	+·052	+·025	+·019	+·017	—·008	+·039	+·037	—·012	+·028	—·011	+·021
	Zanzibar	+·008	+·009	+·020	+·022	+·015	—·020	—·002	+·006	+·012	+·012	+·034	+·019	+·011
	Seychelles	+·025	—·010	+·016	+·018	—·015	—·017	—·038	—·003	+·017	+·036	+·047	+·020	+·008
	Mauritius	+·029	+·014	—·026	—·053	+·019	—·034	—·003	—·042	—·004	+·011	+·042	+·036	—·00

The following tables give summaries of the pressure departure data according to the two groups of divisions employed in the corresponding table of temperature departure data, that is, for the sixteen divisions for which the departure data were given in the "Geographical Summaries" in the annual reports previous to 1891 and the eleven meteorological provinces in Table I of each monthly review :—

TABLE XVI.—*Geographical summary of the pressure departure data of Table II in the Monthly Weather Reviews of 1906.*

METEOROLOGICAL PROVINCE.	Number of stations.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
		"	"	"	"	"	"	"	"	"	"	"	"	"
North-West Himalayas . .	4-5	+·004	—·076	—·001	—·028	—·017	+·015	—·018	+·012	—·017	+·006	+·026	—·012	—·010
Sikkim Himalayas and Nepal	2	—·006	—·089	+·017	—·040	—·018	+·028	—·013	+·030	—·018	+·011	+·021	+·009	—·002
Punjab Plains . . .	3	+·004	—·056	+·052	—·008	—·058	+·014	—·040	+·025	—·027	0	+·002	—·015	—·009
Gangetic Plain . . .	3	+·002	—·029	+·054	—·022	—·054	+·016	—·042	+·041	—·032	+·002	+·007	—·009	—·006
Western Rajputana . .	4	+·024	—·038	+·048	+·024	—·013	+·017	—·027	+·018	—·018	+·020	+·024	—·008	+·008
Eastern Rajputana and Central India.	1	+·012	—·039	+·045	+·018	—·035	+·021	—·021	+·041	—·029	+·018	+·019	—·007	+·004
Nerbudda Valley . .	1	+·008	—·044	+·016	+·010	—·015	+·007	—·027	+·020	—·012	+·016	+·023	—·022	—·002
Chota Nagpur . . .	1	—·003	—·031	+·047	—·020	—·048	+·017	—·031	+·052	—·032	+·023	+·012	—·013	—·002
Lower Bengal	2	+·008	—·017	+·071	—·034	—·050	+·021	—·021	+·070	—·041	+·015	+·023	—·012	+·008
Orissa	1	+·006	—·024	+·067	—·023	—·043	+·013	—·020	+·068	—·035	+·015	+·028	—·013	+·003
Central Provinces (South) and Berar.	5	—·017	—·055	+·016	0	—·012	+·009	—·027	+·023	—·014	+·017	+·023	—·019	—·005
Konkan	2	+·014	—·007	+·037	+·025	+·016	+·018	—·031	—·004	+·005	+·009	+·033	—·021	+·008
Deccan, Hyderabad and Mysore.	8	—·007	—·033	+·026	+·003	+·008	+·011	—·029	—·001	—·001	+·008	+·029	—·027	—·001
East Coast and Carnatic .	3	—·008	—·044	+·044	+·003	—·015	+·006	—·026	+·018	—·015	+·002	+·034	—·034	—·008
Arakan and Pegu . . .	4	—·006	—·027	+·037	—·007	—·039	+·007	—·027	+·048	—·041	+·010	+·024	—·024	—·004
Bay Islands	1	+·005	—·006	+·024	+·014	—·011	+·017	—·021	+·021	—·031	+·006	+·036	—·007	+·005
Extra-Tropical India . .	21-22	+·007	—·046	+·036	—·012	—·038	+·017	—·027	+·030	—·024	+·010	+·017	—·009	—·003
Tropical India . . .	24	—·006	—·034	+·031	+·002	—·010	+·010	—·027	+·018	—·014	+·009	+·028	—·024	—·011
Whole India . . .	45-46	0	—·040	+·033	—·005	—·021	+·013	—·027	+·024	—·019	+·010	+·023	—·017	—·002

TABLE XVII.—*Departure of the mean monthly pressure from the normal in the eleven meteorological provinces of India in 1906.*

METEOROLOGICAL PROVINCE.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
	"	"	"	"	"	"	"	"	"	"	"		"
Burma Coast and Bay Islands .	—·005	—·017	+·039	+·007	—·026	+·017	—·028	+·035	—·028	+·016	+·037	—·014	+·003
Burma Inland	+·001	—·029	+·043	—·029	—·053	+·013	—·040	+·048	—·041	+·011	+·009	—·024	—·008
Assam	—·002	—·023	+·054	—·059	—·046	+·007	—·047	+·042	—·047	+·012	+·020	—·012	—·008
Bengal and Orissa	+·007	—·015	+·069	—·042	—·037	+·022	—·024	+·066	—·039	+·015	+·027	—·007	+·004
Gangetic Plain and Chota Nagpur .	—·002	—·025	+·061	—·035	—·044	+·018	—·035	+·052	—·031	+·014	+·017	—·006	—·001
Upper Sub-Himalayas . . .	+·009	—·029	+·059	—·012	—·052	+·024	—·036	+·035	—·023	+·017	+·019	—·005	+·001
Indus Valley and North-West Rajputana.	+·024	—·041	+·060	+·015	—·027	+·029	—·032	+·025	—·020	+·019	+·013	—·016	+·004

TABLE XVII.—*Departure of the mean monthly pressure from the normal in the eleven meteorological provinces of India in 1906*—concld.

METEOROLOGICAL PROVINCE.	January.	February	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
	"	"	"	"	"	"	"	"	"	"	"	"	"
East Rajputana, Central India and Gujarat.	+·014	—·030	+·045	+·019	—·011	+·026	—·023	+·032	—·019	+·029	+·030	—·011	+·008
Deccan	—·005	—·039	+·035	—·005	—·011	+·015	—·031	+·026	—·014	+·021	+·030	—·020	0
West Coast	+·005	—·007	+·033	+·018	+·011	+·013	—·031	—·008	+·001	+·009	+·034	—·023	+·005
South India	—·010	—·029	+·043	+·001	—·002	+·010	—·029	+·007	—·006	+·010	+·035	—·035	0

I.—The cold weather period.—

(*a*) The mean 8 hrs. pressure of the Indian land area was almost identical with the normal in January, and considerably in defect in February. The general pressure conditions of the period at the level of the plains were thus the inverse of those obtaining in the corresponding period of 1905 when the mean pressure was ·031" above normal.

Month.	DEPARTURE FROM NORMAL OF MEAN 8 HRS. PRESSURE.	
	1905.	1906.
	"	"
January	+·019	+·002
February	+·043	—·027

(*b*) The excess of pressure in January and the defect in February extended over a much larger area than India:

Station.	DEPARTURE OF PRESSURE FROM NORMAL IN		
	January.	February.	Period, January and February.
	"	"	"
Mauritius	+·029	+·014	+·022
Seychelles	+·025	—·010	+·008
Zanzibar	+·003	—·002	+·001
Aden	+·026	—·028	—·001
Perim	+·041	+·024	+·033
Baghdad	+·008	—·027	—·010
Bushire	—·013	—·049	—·031
Jask	+·007	+·016	+·012
Muscat	+·008	—·023	—·008
Kashgar	+·005	—·181	—·088

(*c*) The local features of the pressure distribution were neither persistent nor significant:—

PROVINCE OR DIVISION.	EXCESS OF PRESSURE DEPARTURE OVER GEOGRAPHICAL MEAN OF INDIA.		
	January.	February.	Period, January and February.
	"	"	"
Burma	—·005	+·005	0
Assam	—·004	+·004	0
Bengal	+·005	+·011	+·008
Orissa	—·001	+·010	+·005
Bihar	0	+·008	+·004
Chota Nagpur	—·005	—·004	—·005
United Provinces	0	+·002	+·001
Punjab	+·014	—·007	+·004
North-West Frontier Province .	+·003	—·034	—·016
Sind	+·036	—·007	+·015
Rajputana	+·015	—·009	+·003
Gujarat	+·018	+·002	+·010
Central India	0	—·011	—·006
Central Provinces	—·008	—·018	—·013
Berar	—·010	—·014	—·012
West Coast	+·003	+·020	+·012
Bombay Deccan	—·003	—·005	—·004
Hyderabad	—·012	+·002	—·005
Mysore	—·004	+·009	+·003
Madras Coast	—·014	—·005	—·010
Madras Deccan	—·025	+·003	—·011
South India	—·008	—·005	—·007

(*d*) The vertical pressure gradient over northern India was steeper than usual, particularly in February: this feature was initiated in November.

Pair of Stations.	Departure from normal of vertical pressure differences. October 1905.	November 1905	December 1905.	January 1906.	February 1906.
	"	"	"	"	"
Lahore and Leh	—·026	+·011	+·036	+·023	+·056
Jacobabad and Quetta	0	—·006	+·029	+·021	+·047
Peshawar and Murree	—·025	—·009	+·016	—·005	+·008
Ludhiana and Simla	—·013	—·006	+·015	+·014	+·029
Roorkee and Chakrata	—·010	+·005	+·005	+·014	+·037
Bareilly and Ranikhet	—·012	+·002	+·002	+·013	+·032
Dhubri and Darjeeling	—·006	+·034	+·024	+·002	+·012
Deesa and Mount Abu	—·001	—·010	—·002	+·020	+·030
Khandwa and Pachmarhi	—·004	—·020	+·002	+·003	+·006
Coimbatore and Wellington	—·002	+·008	+·009	—·022	—·030

It is noteworthy that notwithstanding the favourable character of the vertical pressure distribution in December and the succeeding month the weather in upper India was drier than usual during the first half of the period.

II.—The hot weather period.

(*a*) Pressure was in large excess in March, approximately normal in April and in moderate defect in May.

Month.	Departure from normal of mean 8 hrs. pressure.
	"
March	+·048
April	—·007
May	—·022

(*b*) On the mean of the period pressure was locally in excess in Sind, Rajputana, Gujarat, Central India and the greater part of the Peninsula, and in defect over the rest of the country.

Province or Division.	Excess of pressure departure over geographical mean of India. March.	April	May.	Period, March to May.
	"	"	"	"
Burma	+·007	—·001	—·014	—·003
Assam	+·006	—·052	—·024	—·023
Bengal	+·020	—·039	—·015	—·011
Orissa	+·021	—·016	—·016	—·004
Bihar	+·019	—·043	—·021	—·015
Chota Nagpur	+·011	—·017	—·016	—·007
United Provinces	+·011	—·016	—·025	—·010
Punjab	+·014	+·007	—·027	—·002
North-West Frontier Province	+·002	—·006	—·017	—·007
Sind	+·015	+·039	+·012	+·022
Rajputana	0	+·026	+·001	+·009
Gujarat	—·011	+·030	+·021	+·013
Central India	—·007	+·018	+·006	+·006
Central Provinces	—·011	+·002	—·001	—·003
Berar	—·021	+·005	+·016	0

Province or Division.	Excess of pressure departure over geographical mean of India. March.	April.	May.	Period, March to May.
	"	"	"	"
West Coast	—·010	+·025	+·033	+·016
Bombay Deccan	—·018	+·009	+·030	+·007
Hyderabad	—·010	—·008	+·018	0
Mysore	—·013	+·017	+·031	+·012
Madras Coast	+·003	+·002	+·012	+·006
Madras Deccan	—·015	—·007	+·021	0
South India	—·010	+·022	+·026	+·013

(*c*) The vertical distribution of pressure was abnormal during the whole of the period: thus there was a large defect of pressure at the level of the hill stations in northwest and central India, relatively to the neighbouring plains, in other words the vertical gradients were steeper than usual in March, and a slight defect in April; while opposite conditions obtained in May.

Pair of Stations.	Departure from normal of vertical pressure differences. March.	April.	May.	Period, March to May.
	"	"	"	"
Lahore and Leh	+·093	+·059	—·062	+·030
Jacobabad and Quetta	+·075	+·024	—·030	+·023
Peshawar and Murree	+·037	+·010	—·013	+·011
Ludhiana and Simla	+·049	+·004	—·053	0
Roorkee and Chakrata	+·053	+·011	—·037	+·009
Bareilly and Ranikhet	+·039	+·001	—·028	+·004
Dhubri and Darjeeling	+·053	—·037	—·036	—·007
Deesa and Mount Abu	+·020	+·018	—·010	+·009
Coimbatore and Wellington	+·002	—·011	—·008	—·006

These characteristics were probably connected with the excessive snowfall of March and April and with the high temperature of May.

(*d*) Pressure was throughout the period above normal in Persia, Arabia and Zanzibar. Conditions were on the other hand unsteady at Baghdad, Seychelles and Mauritius.

Station	Departure of pressure from normal in March.	April.	May.	Period, March to May.
	"	"	"	"
Mauritius	—·026	—·053	+·019	—·020
Seychelles	+·016	+·018	—·015	+·006
Zanzibar	+·023	+·017	+·009	+·016
Aden	+·042	+·037	+·032	+·037
Persia	+·075	+·041	+·025	+·047
Baghdad	—·039	—·039	+·004	—·041
Bushire	+·022	+·039	+·035	+·032
Jask	+·077	+·033	+·006	+·040
Muscat	...	+·037	+·013	...
Kashgar	+·003	—·049	—·061	—·036

III.—The south-west monsoon period.—

(*a*) Pressure varied very irregularly from the normal during this period: thus it was well above normal in June and August, and in defect in July and September:—

Month.	Departure from normal of mean 8 hrs. pressure.
	"
June	+·018
July	—·030
August	+·031
September	—·020

(*b*) There were no persistent conspicuously abnormal features in the local distribution of pressure:—

Province or Division.	Excess of pressure departure over geographical mean of India.				
	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"
Burma	—·002	—·002	+·009	—·014	—·002
Assam	—·011	—·017	+·011	—·027	—·011
Bengal	+·004	+·005	+·034	—·023	+·005
Orissa	0	+·013	+·043	—·006	+·013
Bihar	+·006	—·007	+·020	—·010	+·002
Chota Nagpur	+·001	+·003	+·034	—·012	+·007
United Provinces	+·004	—·004	+·014	—·008	+·002
Punjab	+·006	—·005	0	—·003	—·001
North-West Frontier Province	+·001	—·010	—·017	—·008	—·009
Sind	+·007	+·002	—·008	+·004	+·001
Rajputana	+·018	+·011	+·016	+·003	+·012
Gujarat	+·005	+·004	—·017	+·005	—·001
Central India	—·008	+·001	+·012	—·009	0
Central Provinces	—·005	+·001	+·010	0	+·002
Berar	+·002	—·001	—·001	+·009	+·002
West Coast	—·005	—·001	—·039	+·021	—·006
Bombay Deccan	+·002	—·002	—·024	+·019	—·001
Hyderabad	—·006	—·004	—·027	+·009	—·007
Mysore	—·005	—·002	—·040	+·017	—·008
Madras Coast	—·008	+·006	—·009	+·007	—·001
Madras Deccan	—·008	—·004	—·032	+·014	—·008
South India	—·011	—·002	—·032	+·023	—·006

(*c*) The vertical gradient was on the mean of the period very nearly normal except in the eastern Himalayas where it was weaker than usual:—

Pair of stations.	Departure from normal of vertical pressure differences.				
	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"
Lahore and Leh	+·012	—·038	+·005	—·031	—·011
Jacobabad and Quetta	+·026	—·024	+·019	+·011	+·008
Peshawar and Murree	+·008	—·022	+·003	—·010	—·005
Ludhiana and Simla	+·001	—·032	0	—·006	—·009
Roorkee and Chakrata	+·004	—·022	+·018	—·009	—·002
Dhubri and Darjeeling	—·009	—·038	+·007	—·046	—·022
Deesa and Mount Abu	—·004	—·007	—·008	—·001	—·005
Hoshangabad and Pachmarhi	—·015	?	+·005	+·007	...

(*d*) The pressure conditions were as unsteady in Persia, Arabia and the Indian Ocean as in India. The changes at Mauritius were however the opposite of those in India:—

Station.	Departure of pressure from normal in				
	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"
Mauritius	—·034	—·008	—·042	—·004	—·021
Seychelles	+·017	—·038	—·003	+·017	—·010
Zanzibar	—·025	—·006	+·007	+·010	—·004
Aden	+·011	—·011	+·016	+·006	+·006
Perim	+·013	—·012	+·029	+·032	+·016
Baghdad	—·008	—·027	—·018	—·024	—·019
Bushire	—·005	—·013	+·020	—·026	—·006
Jask	+·015	—·029	+·013	—·020	—·008
Muscat	+·011	—·045	+·014	—·028	—·012
Kashgar	—·060	—·058	—·049	—·065	—·058

IV.—The retreating south-west monsoon period.—

(*a*) Pressure was greater than usual in October and November and below normal in December. Both the excess and defect were common to the whole Indian land area and were apparently due to general rather than local actions.

Month.	Departure from normal of mean 8 hrs. pressure.
	″
October	+·015
November	+·027
December	—·017

(*b*) The only important peculiarities in the local distribution of pressure from the standpoint of weather were a slight deficiency in November and a moderate excess in December in Burma and northeast India relatively to the Peninsula :—

Province or Division.	Excess of pressure. Departure over geographical mean of India.			
	October.	November.	December.	Period, October to December.
	″	″	″	″
Burma	+·001	—·001	—·001	0
Assam	—·003	—·007	+·005	—·002
Bengal	—·001	—·002	+·010	+·002
Orissa	+·003	+·007	+·005	+·005
Bihar	+·001	—·010	+·015	+·002
Chota Nagpur	0	—·001	+·013	+·004
United Provinces	+·002	—·009	+·012	+·002
Punjab	+·001	—·012	+·006	—·002
North-West Frontier Province	—·025	—·030	—·009	—·021
Sind	+·013	—·012	+·009	+·003
Rajputana	+·017	+·004	+·008	+·010
Gujarat	+·017	+·005	+·002	+·008
Central India	+·006	—·001	+·002	+·002
Central Provinces	+·006	+·003	—·001	+·003
Berar	+·011	+·005	0	+·005
West Coast	—·006	+·007	—·006	—·002
Bombay Deccan	+·006	+·007	—·003	+·003
Hyderabad	+·003	—·002	—·012	+·004
Mysore	—·009	—·002	—·014	—·008
Madras Coast	—·005	+·011	—·020	—·005
Madras Deccan	—·008	0	—·029	—·012
South India	—·003	+·012	—·011	—·001

(*c*) The vertical pressure gradient was on the whole weaker than usual and this condition was most marked in the case of Lahore-Leh and Peshawar-Murree. The vertical distribution was thus unfavourable for an early winter :—

Pair of stations.	Departure from normal of vertical pressure differences.			
	October.	November.	December.	Period, October to December.
	″	″	″	″
Lahore and Leh	—·013	—·045	—·038	—·032
Jacobabad and Quetta	+·018	—·018	—·006	—·002
Peshawar and Murree	—·027	—·037	—·029	—·031
Ludhiana and Simla	—·003	—·008	+·001	—·003
Roorkee and Chakrata	+·003	—·003	+·002	+·001
Dhubri and Darjeeling	—·006	—·010	—·022	—·013
Deesa and Mount Abu	+·008	—·012	—·010	—·005
Hoshangabad and Pachmarhi	+·007	—·007	—·008	—·003

(*d*) In the Indian Ocean and southern Arabian pressure was above normal throughout the period, while in Persia and Kashgar it was below normal, the deficiency averaging a twentieth of an inch at Kashgar where it was largest in amount :—

Station.	Departure of pressure from normal in.			
	October.	November.	December.	Period, October to December.
	″	″	″	″
Mauritius	+·011	+·042	+·036	+·030
Seychelles	+·036	+·047	+·020	+·034
Zanzibar	+·015	+·042	+·024	+·027
Aden	+·020	+·029	+·027	+·025
Perim	—·006	+·021	+·004	+·006
Baghdad	+·036	+·008	+·022	+·022
Bushire	—·010	+·002	—·016	—·008
Jask	—·001	—·023	—·025	—·016
Muscat	—·007	+·003	+·002	—·001
Kashgar	—·078	—·004	—·058	—·047

The year :—

(*a*) The mean pressure of the year (as determined from 10 and 16 hrs. observations) agreed very closely with the normal, being only ·002″ in defect. The deficiency was more marked in extra tropical India than in tropical India. The only divisions in which the mean pressure of the year departed from the normal by ·008″ or upwards were the Konkan (+·008″), the Punjab (—·009″) and the North-West Himalayas (—·010″).

(*b*) Pressure was normal in one month, higher than usual in five months and below normal in six months; the departures were large only in February (—·04″), March (+·03″), and July (—·03″):—

Month.	Departure from normal of mean pressure.		
	Extra-tropical India.	Tropical India.	Whole India.
	″	″	″
January	+·007	—·006	0
February	—·046	—·034	—·040
March	+·036	+·031	+·033
April	—·012	+·002	—·005
May	—·033	—·010	—·021
June	+·017	+·010	+·013
July	—·027	—·027	—·027
August	+·030	+·018	+·024
September	—·024	—·014	—·019
October	+·010	+·009	+·010
November	+·017	+·028	+·023
December	—·009	—·024	—·017
Whole year	+·003	—·001	—·002

On comparing these departures with those of the temperature given at page 164 it will be seen that in general there existed no direct relation between them.

(*c*) There was a very feeble tendency for pressure at the hill stations to vary in the direction opposite to that at the plain stations. The vertical gradient was on the whole somewhat steeper than usual in northwestern India and less steep in northeast India:—

Pair of stations.	Departure from normal of vertical pressure differences.
	″
Lahore and Leh	+·004
Jacobabad and Quetta	+·014
Peshawar and Murree	—·005
Ludhiana and Simla	0
Roorkee and Chakrata	+·006
Dhubri and Darjeeling	—·011
Deesa and Mount Abu	+·004

Below are given the departures and progressive changes of pressure in the Indian land area during the past 32 years:—

Year.	Number of stations.	Mean pressure.	Progressive variation.
		″	″
1875	33	—·007	
1876	35	—·007	0
1877	59	+·032	+·039
1878	65	+·002	—·030
1879	81	—·014	—·016
1880	93	—·003	+·011
1881	93	+·002	+·005
1882	93	—·010	—·012
1883	105	—·005	+·005
1884	107	+·010	+·015
1885	113	+·014	+·004
1886	113	—·003	—·017
1887	127	—·006	—·003
1888	102	+·011	+·017
1889	76	+·004	—·007
1890	77	—·009	—·013
1891	72	+·010	+·019
1892	72	—·022	—·032
1893	66	—·001	+·021
1894	66	—·012	—·011
1895	66	+·003	+·015
1896	63	—·001	—·004
1897	74	—·005	—·004
1898	74	—·013	—·013
1899	51	+·004	+·022
1900	49	+·010	+·006
1901	47	+·005	—·005
1902	46	+·011	+·006
1903	46	+·001	—·010
1904	46	—·003	—·004
1905	46	+·009	+·012
1906	45	—·002	—·011

STORMS.

Below are given statements of the cyclonic storms formed in the Indian Seas during 1905 and 1906 drawn up in the same form as in previous years. The tracks of the more important of these storms are given in Plates VI*a* and VI*b* at the end of the Summary. In these Plates dotted lines indicate that the winds due to disturbed conditions did not reach force 6.

STORMS OF 1905—BAY OF BENGAL.

No.	Month.	Date.	Greatest observed barometric depression.	Character of storm.	Details of storm.
1	May ...	20th to 22nd.	·43″	Cyclonic storm of moderate intensity.	This storm formed to the north of the Andamans during the 20th in front of a temporary advance of humid winds and marching in a northerly direction struck the coast near Akyab on the morning of the 22nd. It apparently broke up immediately after crossing the coast under the obstructive action of the Arakan hills. The rainfall accompanying the storm was restricted to Burma and was nowhere heavy. The strongest winds recorded on board vessels in the Bay during the existence of the storm were of force 8. (Track not shown.)
2	June and July.	29th June to 3rd July.	·2″	Cyclonic storm of slight or moderate intensity.	This storm originated over the northwest corner of the Bay during the 29th and advancing through the Central Provinces, the east of Central India and the central districts of the United Provinces broke up near Bahraich on the 3rd. During the last three days of its existence it was a fairly well marked depression rather than a storm. Although feeble the disturbance occasioned much needed rain over southwest Bengal and across the head of the Peninsula. Winds of force 10 were recorded on board the *Torch*, *Canopus* and *Luna*.
3	July ...	4th to 8th.	·32″	Cyclonic storm of moderate intensity.	This storm formed over the Sandheads during the 4th and advancing along a westnorthwest track filled up over the west of Central India during the 8th. It was noteworthy for the heavy rain it gave to the Central Provinces, the west of Central India and south Rajputana.
4	July...	10th to 14th.	·1″	Cyclonic storm of feeble intensity.	This storm formed at the head of the Bay during the 10th and thence travelled by a curved path into the northeast of the United Provinces. It was throughout of feeble intensity but occasioned moderately heavy rain in northeast India. Winds of force 7 to 8 were experienced at the head of the Bay.
5	July...	18th to 25th.	·2″	Cyclonic storm of feeble intensity.	This storm formed at the head of the Bay and passing through Orissa, the Central Provinces, the west of Central India, east Gujarat was absorbed into the area of permanent low pressure over Sind on the 25th. It was remarkable for the heavy downpours of rain it gave in Gujarat.
6	July...	26th to 29th.	·2″ ...	Cyclonic storm of feeble intensity.	This apparently formed over the northeast corner of the Bay and advanced through east Bengal into central Bengal where it disappeared on the 29th. Heavy to very heavy rain occurred over the greater part of Bengal and Bihar between the 27th and 31st. The strongest winds experienced at the head of the Bay were of force 8. (Track not given.)
7	September.	5th to 12th.	·36″	Cyclonic storm of moderate intensity.	This storm formed near the Orissa coast on the 5th and, 6th. It crossed the coast early on the morning of the 8th. The centre was between Raipur and Seoni on the morning of the 9th, near Neemuch on the 10th, to the west of Jodhpur on the 11th and apparently near Sialkot and Lahore on the 12th. It disappeared in the Himalayas during the day. The storm caused heavy precipitation in the Punjab and Kashmir and its disappearance marked the termination of the rains in upper India. Winds of force 6 to 8 were experienced by several vessels during its early stages.
8	September.	21st to 26th.	·33″	Cyclonic storm of moderate intensity.	This storm apparently originated in an area of low pressure which first showed itself over Burma on the 17th and thence passed westwards out into the Bay during the 19th. The low intensified considerably during the next three days and by the morning of the 23rd had become a storm of moderate intensity. From here the storm marched northwestwards and crossing the coast near Waltair on the morning of the 24th was central near Raipur on the 25th and Pachmarhi on the 26th. The disturbance filled up almost completely during the day owing chiefly to the diversion of the Bay current to Burma where another low pressure area had appeared.
9	September.	27th to 30th.	·22″	Cyclonic storm of moderate intensity.	Winds of force 9 were experienced by the *Sanctoria* to the south of the centre on the 23rd. Like the previous this storm also was the development of a low which passed from Burma into the Bay. It however followed a quite different path, advancing from the Sunderbans on the 28th through Chota Nagpur on the 29th to North Bihar on the 30th. It occasioned moderate to heavy rain over the region traversed by it. The strongest winds experienced by vessels over the north of the Bay did not exceed 6 or 7 in force.

No.	Month	Date.	Greatest observed barometric depression.	Character of storm.	Details of storm.
10	October	22nd to 26th.	·21″	Cyclonic storm of moderate intensity.	This storm formed off the Ganjam coast during the 22nd and advancing along a northeasterly track crossed the coast near Chittagong sometime between the 8 hours of the 25th and the same hour of the following day. It apparently broke up among the Tipperah Hills during the 26th. Several vessels experienced winds of force 6 to 8 during its existence over the Bay.
11	December.	7th to 9th.	·23″	Cyclonic storm of moderate intensity.	This storm was apparently generated in the neighbourhood of the Andamans during the 7th. It was central 150 miles to the southwest of Diamond Island on the morning of the 8th and about the same distance to the westnorthwest of that station on the 9th. It broke up during the day without reaching land. The strongest winds actually experienced by vessels did not exceed 7 in force.

ARABIAN SEA.

No.	Month.	Date.	Greatest observed barometric depression.	Character of storm.	Details of storm.
	October	20th to 25th or 26th.	·26″	Apparently a storm of considerable intensity (?).	A large area of low pressure covered the east and centre of the Arabian Sea during the period 15th to 19th: it was within this low that a storm was generated on the 20th and 21st. The centre of the disturbance advanced westsouthwestwards from about Lat. 17½° N. and Long. 66½° E. on the 22nd to Lat. 15½° N. and Long. 61½° on the 25th, its position on the intervening days being Latitude 17½° and Long. 66° on the 23rd and Lat. 16½°, Long. 64° on the 24th. But little information is available for the 26th: it shows however that the storm had filled up almost completely during the previous 24 hours. A whole gale (force 10) was experienced by the *City of Venice*.

STORMS OF 1906—BAY OF BENGAL.

No.	Month.	Date.	Greatest observed barometric depression.	Character of storm.	Details of storm.
1	January	14th to 17th.	·19″	Cyclonic storm of moderate intensity (?)	This storm formed over the Bay to the west of Ceylon on the 14th and marching in a westnorthwest direction during the 15th was central about 60 miles to the north by east of Trincomalee at 8 hours of the 16th; its movement during the next 24 hours was almost due west. The disturbance disappeared completely during the 17th. The strongest winds experienced by vessels were of force 10.
2	June.	16th to 23rd.	·29″	Cyclonic storm of considerable intensity (?)	This storm originated over the Bay in front of the first advance of monsoon winds on the 16th and 17th. It crossed the coast near Gopalpur during the 18th and then advancing through the Central Provinces, the west of Central India, south Rajputana and lower Sind passed out into the Arabian Sea on the early morning of the 23rd. The path of the storm over the land was extremely unusual and almost unique, the only other instance on record of a storm with a similar track having occurred in the last week of June 1883.
3	July.	20th to 22nd.	·35″	Cyclonic storm of moderate intensity.	This storm formed over the Bay off the Orissa coast on the 20th and thence travelled westnorthwestwards to the neighbourhood of Seoni where it broke up as a definite system during the 23rd. It occasioned moderate to heavy rain in Orissa and the Central Provinces.
4	July.	24th to 28th.	·31″	Cyclonic storm of moderate intensity.	This storm formed over the head of the Bay during the 24th and advanced to Chota Nagpur. It occasioned heavy rain in Deltaic Bengal and Chota Nagpur.

No.	Month.	Date.	Greatest observed barometric depression.	Character of storm.	Details of storm.
	October	24th to 30th.	·54″	Cyclonic storm of considerable intensity. (?)	This storm originated in an area of low pressure which appeared over the southeast of the Bay on the 24th and was displaced westwards during the next two days. Low pressure conditions concentrated during the 26th into a storm with a well defined centre of wind convergence. The storm centre travelled northwards from Lat. 11½° and Long. 85° at 8 A.M. of the 27th to Lat. 14½° and Long. 84½° at the corresponding hour of the 28th: by the morning of the following day the storm had approached the Ganjam coast and was central about 50 miles to the southsoutheast of Vizagapatam. It could not surmount the East Ghats and was speedily broken up as a definite system. The storm was probably a moderately severe disturbance; the strongest winds actually experienced by vessels involved it were of force 10. Its influence on the weather in India was confined mainly to Ganjam, Orissa and Bengal to which it gave moderate to heavy rain.
6	December.	25th to 27th.	·44″	Cyclonic storm of considerable intensity.	This storm formed over the southwest of the Bay on the 25th and advancing in a northwesterly direction crossed the Coromandel coast near Madras on the 27th. It determined moderately heavy rain to the south Coromandel coast. Winds of force 10 were experienced by the *Ufina* on the 26th.

ARABIAN SEA.

No.	Month.	Date.	Greatest observed barometric depression.	Character of storm.	Details of storm.
	October and November.	29th October to 2nd November.	·27″ (?)	Cyclonic storm of moderate or considerable intensity (?)	This storm apparently formed to the east of Socotra on the 29th, it marched very slowly westwards during the next four days. The centre was about 50 miles to the east of Socotra at 8 hours of the 2nd of November. No reliable information is available about its further career. The *Sardinia*, about 100 miles southsoutheast of the centre on the morning of the 30th October, experienced gales of force 10.

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Winds.

The mean direction of the wind and the mean diurnal movement of the air, as measured by Robinson anemometers, are given for all second class stations in Table II in each Monthly Weather Review. The normal values are also stated for the sake of ready comparison. The normal data of these elements, utilized in Table II of the Monthly Reviews of the year 1906 will be found in a collected form in Tables XXII, XXVI and XXVII of Vol. XVII of Indian Meteorological Memoirs. The mean 8 hrs. wind directions for each month are laid down in the first chart in each Monthly Review. They are calculated in the usual manner by finding the resultant of equal winds in the directions actually observed at 8 hrs. and given in Table I in each Monthly Review. As a general rule, the mean 8 hrs. wind directions vary little from the mean wind directions (calculated from the 10 and 16 hrs. wind data) in Table II of the Monthly Reviews, but in some cases and at certain seasons of the year they differ very considerably.

The chief features of the air movement over India in 1906 have been described in the Monthly Reviews of the year. The following is a summary of the more important features for each period :—

I—The cold weather period.—During January the only striking anomalous feature in the air movement was the undue prevalence of west or northwest winds in the plains of upper India, an indication of a much larger flow than usual of the cooled air from the highlands of Afghanistan and Baluchistan.

In February also there was little that was anomalous except that at the head of the Bay the prevailing winds were south-by-east instead of southwest, as usual in this month; this deflection was apparently caused by the abnormally southerly course followed by most of the cold weather storms of the month.

In the equatorial region the winds were fairly normal in direction in January, but in February northeasterly winds were more, and north westerly winds less, prevalent than usual at the Seychelles; it is a possible inference that the belt of low pressure and variable airs occupied an unusually southerly position.

II.—The hot weather period.—(*a*) In the land area of India winds were on the whole steadier and stronger than usual, during this period, particularly in northern India. Their direction was unusually westerly during March and April in the Punjab and Sind ; but elsewhere the deviations from the normal were small and temporary.

(*b*) Over the Indian Seas the air movement was rather abnormal during May, particularly over the Arabian Sea where northerly winds alternated with those from between south and west.

(*c*) In the western half of the equatorial belt, for which portion alone information is available, the southeast trades extended only as far north as Lat. 7° or 8°S. during the first half of May. Conditions in this region were thus delayed and were similar to those prevailing during the corresponding periods of the previous four years.

III.—The south-west monsoon period.—(*a*) Over the field of the Arabian Sea current the air movement was decidedly below its normal intensity throughout the period, the feebleness being on the whole more marked in July and August than in the other two months. This feature of the air movement was not however directly related to rainfall which was somewhat heavier than usual in July, and below normal in August, though not to the same extent as in June and September. On the other hand in the region usually dependent for its supply of rain on the Bay current the air motion was 5 per cent. above its normal strength in the coast districts, and 11 per cent. weaker than usual in the interior :—

Month.	Percentage departure from normal of mean daily air movement.			
	Bay of Bengal current.		Bombay current.	
	Four coast stations.	Four inland stations.	Four coast stations.	Four inland stations.
June	+ 14	— 20	— 13	— 9
July	+ 11	— 3	— 18	— 20
August	+ 2	+ 1	— 19	— 28
September	— 9	— 24	— 8	— 20
Mean	+ 5	— 11	— 15	— 19

(*b*) Winds were unusually westerly at Port Blair and Diamond Island during the greater part of the period ; the deflection was not however of any significance ; for in spite of it the rainfall was defective in Burma during three out of the four months.

(*c*) The influx of air across the Sandheads was throughout the period directed somewhat more largely than usual to the northern districts of northeast India :—

Station.	WIND DIRECTION.							
	JUNE.		JULY.		AUGUST.		SEPTEMBER.	
	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.
	°	°	°	°	°	°	°	°
Saugor Island	S 5 E	S 12 W	S 1 E	S 19 W	S 3 W	S 12 W	S 2 E	S 3 W

(*d*) Owing to the northward displacement of the middle portion of the trough from June to August the westerly current extended further north than usual :—

Station.	WIND DIRECTION.					
	JUNE.		JULY.		AUGUST.	
	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.
	°	°	°	°	°	°
Hazaribagh	S65W	S42W	S20W	S 6 E	S76W	S9 W
Allahabad	N28W	N10W	N64W	N75E	N71W	N6 E

(*e*) In the hill districts the modifications of the air movement were local :—

Station.	WIND DIRECTION.							
	JUNE.		JULY.		AUGUST.		SEPTEMBER.	
	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.
	°	°	°	°	°	°	°	°
Leh . . .	S 33 W	S 81 W	S42 W	S 75 W	S 62 W	S 73 W	S 38 W	S 66 W
Srinagar . .	N46W	N 9 E	N58W	N43W	N40W	N48W	N89W	N33W
Simla . .	N 8 W	N17W	N	N 15 E	N 3 W	N 33 E	N10W	N 8 E
Chakrata . .	S 23 E	S 66 W	S 66 E	S 66 W	S 9 E	S 66 W	S 15 E	S 63 W
Katmandu .	N70W	N87W	S 18 E	S 63 W	N11 E	N66W	W	N87W
Darjeeling .	S 80 W	S 15 W	S 53 W	S 75 E	N62W	S 84 E	S 46 W	S 85 E

(*f*) In the west of the equatorial belt as represented by Zanzibar and Seychelles winds were neither so strong nor so steady as usual. The direction of movement was about normal except in September during which month the resultant wind at Zanzibar was almost due west instead of south by east, as is normally the case.

(*g*) The marine information shows that during the greater part of June and the first three weeks of July there existed an area of light irregular breezes and calms over the centre and east of the equatorial belt ; apparently this area shifted somewhat erratically in position. During the same period abnormal northwesterly winds prevailed in the southeast of the Arabian Sea and along the west coast of Ceylon.

IV.—The retreating south-west monsoon period.—

(*a*)—Over the land area of India the air movement was on the whole even feebler than is usual during this period. The steadiness was however decidedly greater than the normal in northern India and about the average in the Peninsula.

(*b*) Winds contained more than the usual amount of the westerly component in northern India and of the northerly element in the Peninsula during October and November, the modifications being in complete accord with the anomalous features of the pressure distribution.

Station.	WIND DIRECTION.			
	OCTOBER.		NOVEMBER.	
	Actual.	Normal.	Actual.	Normal.
	°	°	°	°
Saugor Island	N 36 W	N 9 W	N 16 W	N 2 E
Lahore	N 66 W	N 9 W	N 57 W	N 42 W
Ludhiana	N 83 W	N 41 W	N 73 W	N 45 W
Jacobabad	S 46 W	S 17 E	N 62 W	N 18 W
Bombay	N 1 W	N 9 E	N 9 W	N 18 E
Karwar	N 43 W	N 75 W	N 22 W	N 30 W
Hassan	N 44 E	N 48 E	N 55 E	N 70 E
Bellary	N 12 E	N 40 E	N 75 E	N 82 E

(*c*) Winds were very abnormal in the Andamans during November :—

Station.	WIND-DIRECTION.					
	October.		November.		December.	
	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.
	°	°	°	°	°	°
Port Blair.	S 18 W	S 1 W	S 13 E	N 81 E	N 86 E	N 57 E

From these data it would appear that the flow of air from the southeast of the Bay instead of being directed as usual on a westerly course towards Madras was diverted to the north of Bay.

(*d*) Over the west of the equatorial belt winds were unusually steady during October and November and somewhat more variable than usual in December; their velocity was on the whole approximately normal.

(*e*) The final withdrawal of the monsoon currents from the south of the Bay occurred towards the close of December, that is a fortnight later than usual.

Humidity.

The departures from normal of the mean monthly and annual aqueous vapour pressure and relative humidity for the year 1906 are given in Tables XVIII and XIX. The normal values employed in the determination of the departures are given in Tables XXX and XXXIII of the Indian Meteorological Memoirs, Volume XVII. The four tables (Tables XX to XXIII) give departure data of aqueous vapour pressure and relative humidity for each month of the year and for the year:—

1st—For sixteen meteorological areas adopted in the geographical summaries of meteorological data in the annual reports issued by the department previous to 1891.

2nd—For nine meteorological provinces.

TABLE XVIII.—*Departure of the monthly and annual mean vapour pressure data of 1906 from the average of past years.*

Meteorological Provinces.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November	December.	Year
		"	"	"	"	"	"	"	"	"	"	"	"	"
Burma Coast and Bay Islands.	Port Blair	+·033	+·017	−·002	−·033	−·005	−·008	−·016	−·035	−·015	−·036	−·090	+·001	−·013
	Rangoon	+·030	+·017	−·047	−·015	−·007	+·008	+·021	+·019	+·016	−·034	+·003	+·023	+·003
	Diamond Island	+·028	+·002	−·025	−·014	−·006	+·008	+·022	−·007	+·009	−·025	−·033	+·031	−·001
	Cocos Island	+·059	−·014	−·026	Observations discontinued.									?
Bengal and Orissa	Chittagong	+·029	−·007	−·095	+·021	−·013	+·015	+·015	−·009	+·008	+·016	−·069	+·018	−·001
	Calcutta (Alipore)	+·006	+·082	+·010	−·011	+·019	−·017	−·003	−·017	+·006	+·022	+·038	+·029	+·014
	Saugor Island	−·025	+·007	−·034	+·047	+·041	−·009	+·019	+·015	+·026	+·022	+·009	+·016	+·011
	False Point	+·017	+·066	−·081	+·029	−·018	−·010	+·037	+·015	+·016	+·065	+·017	+·029	+·005
Gangetic Plain and Chota Nagpur.	Hazaribagh	−·009	+·112	+·085	−·049	+·029	−·073	−·010	−·026	+·006	+·048	+·013	+·055	+·015
	Allahabad	−·084	+·051	−·026	−·082	−·036	−·091	+·020	−·015	+·021	−·001	−·009	+·027	−·018
Upper Sub-Himalayas	Dehra Dun	−·042	+·007	+·009	−·037	−·068	−·090	+·040	+·007	+·053	+·039	+·006	+·035	−·001
	Roorkee	−·055	+·053	+·051	−·030	−·042	−·093	+·058	+·020	+·056	+·065	+·026	+·051	+·013
	Lahore	−·010	+·069	+·072	+·027	+·067	+·143	+·108	+·053	+·105	+·082	+·050	+·065	+·070
	Ludhiana	−·052	+·017	+·014	+·049	0	−·091	−·031	+·026	+·063	+·004	−·006	+·042	+·003
Indus Valley and North-West Rajputana.	Peshawar	−·038	+·043	−·007	−·060	+·013	+·033	+·009	+·056	+·103	+·071	+·025	+·077	+·028
	Jacobabad	−·020	+·071	+·158	+·112	+·122	+·052	+·040	+·060	+·096	+·104	+·038	+·056	+·078
	Kurrachee	−·062	−·027	−·046	−·095	+·008	−·014	+·032	+·057	+·045	+·061	+·145	−·014	+·007
East Rajputana, Central India and Gujarat.	Jaipur	−·103	−·001	−·022	−·084	−·100	−·042	+·007	−·013	+·062	+·003	−·046	+·004	−·031
	Deesa	−·102	+·043	−·012	−·037	−·050	+·005	+·061	+·036	+·115	+·078	+·014	+·018	+·014
Deccan	Belgaum	+·045	+·024	−·105	−·069	+·016	−·005	+·019	+·023	+·006	+·026	−·015	+·036	0
	Sholapur	−·014	−·028	−·077	−·112	+·019	+·033	+·044	+·033	+·007	−·023	−·025	−·005	−·012

TABLE XVIII.—*Departure of the monthly and annual mean vapour pressure data of 1906 from the average of past years—concld.*

METEOROLOGICAL PROVINCE.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
		"	"	"	"	"	"	"	"	"	"	"	"	"
DECCAN—*concld.*	Akola	—·034	+·016	+·032	+·028	+·090	+·074	+·070	+·032	+·037	—·041	—·004	+·064	+·031
	Buldana	—·068	+·037	+·062	+·107	+·014	—·003	+·033	+·011	+·007	—·053	—·045	+·020	+·010
	Khandwa	—·117	—·043	+·031	—·067	—·041	—·018	+·023	+·006	+·014	—·020	—·007	+·045	—·015
	Nagpur	—·038	+·051	+·034	—·089	—·023	—·010	+·037	+·019	+·007	—·017	—·002	+·047	0
	Hyderabad (Deccan)	+·063	—·014	—·017	—·107	—·091	—·030	+·015	+·005	—·027	—·023	—·013	+·035	—·012
WEST COAST	Bombay	—·046	—·066	—·057	—·032	+·014	—·016	+·004	+·006	—·007	—·049	+·015	—·009	—·020
	Karwar	+·033	—·050	—·066	—·022	+·021	0	+·026	+·020	+·017	+·020	—·028	+·011	—·002
SOUTH INDIA	Salem	+·208	+·262	+·181	?	+·137	+·053	+·044	+·030	0	+·072	+·068	+·111	?
	Chitaldroog	+·086	+·073	+·017	—·028	+·006	—·020	+·027	+·013	0	+·023	—·013	+·044	+·019
	Bangalore	+·046	+·027	—·037	—·069	—·056	—·010	+·014	+·039	+·022	+·038	+·007	+·058	+·007
	Hassan	+·073	+·024	—·019	—·023	+·008	+·005	+·028	+·044	+·017	+·033	+·009	+·038	+·020
	Mysore	+·078	+·046	+·031	—·029	+·010	—·018	+·007	+·021	—·003	+·005	—·009	+·024	+·014
	Madras	+·067	+·098	+·012	+·052	+·060	+·055	+·072	+·065	+·033	+·006	—·023	+·057	+·046
	Bellary	+·019	—·030	—·085	—·127	—·062	—·008	+·003	+·017	—·003	+·028	—·044	?	?
	Waltair	+·031	+·059	—·049	—·021	—·017	—·039	+·015	—·010	—·035	—·025	—·072	+·014	—·012
HILL STATION, BALUCHISTAN.	Quetta	—·017	+·006	+·005	—·045	—·005	+·007	—·039	+·067	+·005	—·001	+·011	+·013	+·001
HILL STATIONS, NORTHERN INDIA.	Leh	—·011	+·004	—·004	—·026	—·014	—·001	—·021	—·010	+·033	+·014	—·012	+·15	—·001
	Srinagar	—·029	—·005	—·017	+·009	+·038	+·012	+·018	+·061	+·041	+·086	+·047	+·030	+·025
	Simla (Ridge)	—·018	+·013	+·006	—·021	—·031	—·020	+·009	—·013	+·011	+·044	—·014	+·011	—·002
	Chakrata	—·045	+·001	—·005	—·028	—·020	—·033	+·037	+·009	+·046	+·037	+·038	+·036	+·013
	Ranikhet	—·031	—·002	—·014	—·052	—·019	Observatory abolished.							?
	Katmandu	—·023	+·004	—·015	—·041	—·027	—·048	+·014	—·020	+·019	—·013	+·016	—·021	—·013
	Darjeeling	—·001	+·011	+·018	+·054	+·033	+·007	+·038	+·016	+·048	+·028	+·035	+·027	+·028
HILL STATIONS, CENTRAL INDIA.	Mount Abu	—·009	—·001	—·012	—·057	—·044	—·004	+·011	+·001	+·046	+·049	+·032	+·021	—·005
	Pachmarhi	—·024	—·027	+·020	—·060	—·065	—·036	+·027	—·003	+·002	—·020	—·038	+·008	—·024
	Chikalda	—·068	—·002	—·009	—·054	—·014	—·001	+·036	+·018	+·015	+·025	+·028	—·011	—·003
EXTRA INDIAN STATIONS	Aden	+·050	+·124	+·054	+·023	+·067	+·008	—·032	?	—·148	+·116	+·105	0	?
	Perim	—·068	—·057	—·097	—·105	—·089	—·033	+·017	+·065	+·011	—·028	—·014	—·023	—·034
	Zanzibar	?	+·048	—·005	—·011	—·005	+·039	—·008	—·056	—·024	—·012	—·024	—·021	?
	Port Victoria (Seychelles)	+·005	+·059	+·030	+·014	+·029	+·045	+·010	—·011	—·037	—·012	—·004	—·018	+·009
	Mauritius (Pamplemouses)	+·003	+·072	+·080	—·043	—·023	—·020	+·016	—·006	—·031	+·007	—·054	—·051	—·004

TABLE XIX.—*Departure of the monthly and annual mean relative humidity data of 1906 from the average of past years.*

METEOROLOGICAL PROVINCE.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
BURMA COAST AND BAY ISLANDS.	Port Blair	+ 6	— 1	0	— 4	— 5	— 1	— 3	— 2	— 4	+ 1	— 4	— 1	— 2
	Rangoon	— 4	— 1	— 4	— 3	— 6	— 2	— 3	+ 4	— 2	— 5	— 2	— 4	— 3
	Diamond Island	0	— 2	+ 1	— 1	+ 1	— 2	— 1	— 4	— 2	+ 6	— 5	— 2	— 2
	Cocos Island	+ 4	— 2	— 2	Observations discontinued.									?
BENGAL AND ORISSA	Chittagong	— 3	— 2	— 7	+ 3	0	0	+ 1	+ 3	+ 3	+ 1	+ 2	— 1	0
	Calcutta (Alipore)	— 2	+19	+ 5	— 5	— 3	— 3	— 2	— 3	+ 1	— 1	0	— 1	0
	Sauger Island	— 1	+ 2	+ 3	+ 2	— 1	— 2	— 1	— 2	+ 1	— 1	— 3	— 5	— 1
	False Point	— 1	— 2	— 6	— 1	— 4	— 2	0	0	+ 1	— 1	— 1	+ 1	— 1
GANGETIC PLAIN AND CHOTA NAGPUR.	Hazaribagh	0	+23	+15	— 4	— 1	— 7	— 4	— 3	— 2	+ 6	+ 3	+ 7	+ 3
	Allahabad	—14	+10	+ 1	— 7	— 4	— 6	+ 2	— 1	0	— 2	— 3	0	— 2
UPPER SUB HIMALAYAS	Dehra Dun	— 8	+ 7	+ 7	— 3	— 8	— 7	+ 1	+ 3	+ 4	0	— 1	+ 3	0
	Roorkee	— 8	+15	+13	— 1	— 7	— 4	+ 3	+ 7	+ 8	+ 6	+ 5	+ 8	+ 4
	Lahore	— 2	+19	+17	+ 4	— 1	+ 7	+ 1	0	+13	+ 6	+ 3	+ 7	+ 6
	Ludhiana	— 6	+ 6	+ 8	+ 4	— 7	— 6	— 8	+ 7	+11	— 2	0	+ 6	+ 1
INDUS VALLEY AND NORTH-WEST RAJPUTANA.	Peshawar	— 9	+13	+ 4	— 5	— 2	+ 1	— 2	+ 4	+ 8	+ 4	0	+10	+ 2
	Jacobabad	— 4	+20	+24	+ 6	+ 2	+ 2	— 1	+ 3	+ 7	+ 7	+ 1	+ 7	+ 6
	Kurrachee	—11	+ 5	+ 1	— 7	— 1	— 2	— 3	0	0	+ 6	+11	— 7	— 1
EAST RAJPUTANA, CENTRAL INDIA AND GUJARAT.	Jaipur	—20	+ 5	— 1	— 6	—12	— 6	— 5	—13	+ 4	— 4	—11	— 2	— 6
	Deesa	—11	+13	+ 2	+ 2	— 1	+ 3	+ 6	+ 5	+14	+ 8	0	+ 3	+ 4
DECCAN	Belgaum	+ 6	+11	— 7	— 7	+ 1	— 2	+ 2	+ 1	+ 3	+ 2	— 1	+ 4	+ 1
	Sholapur	— 4	— 2	— 6	—10	— 1	+ 3	+ 3	+ 3	— 1	— 5	— 5	— 2	— 2
	Akola	— 7	+ 1	+ 2	— 2	+ 3	+ 8	+ 5	+ 1	+ 5	— 5	— 5	+ 5	+ 1
	Buldana	—10	+ 8	+ 5	+ 5	— 1	+ 1	+ 2	— 1	+ 1	— 8	— 8	0	— 1
	Khandwa	—15	— 2	— 3	— 6	— 5	+ 3	+ 2	— 1	+ 5	0	— 2	+ 4	— 2
	Nagpur	— 9	+ 6	+ 6	— 9	— 3	+ 2	+ 6	+ 2	+ 2	— 1	— 2	+ 6	+ 1
	Hyderabad (Deccan)	+ 5	— 1	0	—12	—10	0	+ 1	— 2	— 4	+ 7	— 4	+ 4	— 1
WEST COAST	Bombay	— 3	— 1	0	+ 1	0	0	+ 1	— 1	— 2	— 5	— 2	— 4	— 1
	Karwar	+ 2	— 1	0	+ 1	— 1	— 3	+ 2	+ 1	+ 2	+ 2	— 3	+ 1	0

TABLE XIX.—*Departure of the monthly and annual mean relative humidity data of 1906 from the average of past years*—concld.

METEOROLOGICAL PROVINCE.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
SOUTH INDIA.	Salem	+14	+15	+15	?	+ 1	+ 2	+ 1	+ 5	— 2	+ 5	+ 3	+ 8	?
	Chitaldroog	+ 9	+11	+ 1	— 6	— 3	— 1	+ 1	+ 1	+ 4	+ 5	— 3	+ 4	+ 2
	Bangalore	+ 1	+ 1	— 1	— 9	—11	— 2	+ 1	+ 5	+ 4	+ 3	— 2	+ 5	0
	Hassan	+ 4	+ 2	— 3	— 7	— 4	— 2	+ 1	+ 4	+ 5	+ 6	0	+ 5	+ 1
	Mysore	+ 5	+ 5	+ 3	— 3	— 3	— 4	— 1	+ 3	+ 3	+ 1	— 1	+ 4	+ 1
	Madras	+ 4	+ 3	+ 2	+ 1	— 1	+ 4	+ 3	+ 6	+ 1	— 4	+ 2	+ 3	+ 2
	Bellary	— 3	— 2	— 7	—12	— 6	+ 2	— 1	+ 2	+ 3	+ 5	— 7	?	?
	Waltair	+ 1	+ 7	+ 2	+ 3	— 1	+ 6	+ 5	+ 4	— 1	— 3	— 3	— 2	+ 1
HILL STATION, BALUCHISTAN.	Quetta	0	+15	+13	— 1	0	+ 3	— 7	+ 6	+ 3	+ 1	+ 1	— 1	+ 3
HILL STATIONS, NORTHERN INDIA.	Leh	+ 1	— 3	— 3	— 9	— 7	+ 1	— 7	— 7	+11	— 1	— 3	+ 3	— 2
	Srinagar	+ 3	+ 1	+ 3	+ 3	+ 3	+ 1	— 4	— 2	0	0	+ 1	— 2	+ 1
	Simla (Ridge)	— 2	+17	+13	— 2	— 9	0	— 1	+ 4	+ 5	+10	— 6	+ 2	+ 3
	Chakrata	— 3	+13	+ 7	— 3	—10	— 4	+ 2	+ 5	+ 7	+17	+ 6	+ 7	+ 3
	Ranikhet	— 4	+12	+ 3	—10	— 3	Observatory abolished.							?
	Katmandu	— 1	+ 3	+ 2	— 7	— 3	— 5	— 1	0	— 3	— 3	0	— 1	— 2
	Darjeeling	0	+ 6	+ 3	+ 3	— 2	— 1	0	0	— 2	+ 2	+ 2	— 3	+ 1
HILL STATIONS, CENTRAL INDIA.	Mount Abu	—18	+15	+ 2	— 4	— 6	+ 3	+ 2	— 1	+10	+ 9	+ 3	+ 4	+ 2
	Pachmarhi	—13	+ 7	+ 4	— 3	— 9	— 1	+ 3	— 4	+ 4	— 1	— 7	0	— 2
	Chikalda	—10	+ 5	+ 1	— 6	— 3	+ 2	+ 3	— 5	+ 5	+ 3	+ 3	+ 2	0
EXTRA INDIAN STATIONS	Aden	+ 3	+ 3	+ 4	+ 1	+ 4	— 3	— 4	?	—11	+18	+11	0	?
	Perim	—10	— 8	—12	—11	— 8	— 5	— 4	+ 2	— 1	— 3	+ 2	— 2	— 5
	Zanzibar	?	+ 3	+ 4	+ 1	0	+ 4	— 2	— 6	— 2	— 2	— 2	+ 2	?
	Port Victoria (Seychelles)	— 1	— 1	0	+ 2	0	+ 1	— 1	— 2	— 2	— 2	— 1	— 2	— 1
	Mauritius (Pamplemousses)	+ 1	+ 3	+ 5	— 6	— 3	— 1	+ 1	— 1	+ 1	+ 3	— 1	— 2	0

TABLE XX.—*Geographical summary of the aqueous vapour pressure departure data of Table II in the Monthly Weather Reviews of 1906.*

METEOROLOGICAL AREA.	Number of stations.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		"	"	"	"	"	"	"	"	"	"	"	"	"
North-West Himalayas	4-5	—·020	+·002	—·007	—·024	—·009	—·069	+·011	+·012	+·040	+·057	+·015	+·023	+·008
Sikkim Himalayas and Nepal	2	—·012	+·008	+·002	+·007	+·003	—·021	+·026	—·002	+·034	+·008	+·036	+·003	+·009
Punjab Plains	3	—·033	+·043	+·025	+·005	+·027	+·032	+·029	+·045	+·090	+·052	+·023	+·061	+·033
Gangetic Plain	3	—·060	+·037	+·011	—·050	—·035	—·091	+·038	+·004	+·043	+·034	+·008	+·038	+·002
Western Rajputana	4	—·071	+·022	+·021	—·019	+·008	+·010	+·036	+·034	+·076	+·076	+·057	+·020	+·023
Eastern Rajputana and Central India.	1	—·103	—·001	—·022	—·084	—·100	—·042	+·007	—·048	+·062	+·003	—·046	+·004	—·031
Nerbudda Valley	1	—·117	—·043	+·031	—·067	—·041	—·018	+·033	+·006	+·014	—·020	—·007	+·045	—·015
Chota Nagpur	1	—·009	+·112	+·065	—·049	+·029	—·073	—·010	—·026	+·006	+·048	+·013	+·055	+·015
Lower Bengal	2	—·010	+·045	—·011	+·018	+·030	—·013	+·008	—·001	+·016	+·022	+·024	+·023	+·013
Orissa	1	+·017	+·006	—·081	+·029	—·018	—·019	+·037	+·015	+·016	+·005	+·017	+·029	+·005
Central Provinces (South) and Berar.	5	—·062	+·015	+·028	—·018	0	+·005	+·041	+·015	+·014	—·021	—·010	+·026	+·003
Konkan	2	—·007	+·053	—·062	—·027	+·019	—·038	+·015	+·006	+·005	—·015	—·007	+·001	—·012
Deccan, Hyderabad and Mysore	7-8	+·050	+·015	—·037	—·071	—·019	—·007	+·020	+·024	+·002	+·021	—·013	+·033	+·002
East Coast and Carnatic	2-3	+·102	+·140	+·048	+·016	+·060	+·023	+·044	+·028	—·001	+·018	—·009	+·061	+·004
Arakan and Pegu	3	+·029	+·003	—·056	—·003	—·009	+·010	+·019	+·001	+·010	—·015	—·013	+·024	0
Bay Islands	1-2	+·076	—·016	—·014	—·033	—·005	—·003	—·016	—·035	—·015	—·036	—·090	+·001	—·016
Extra-Tropical India	21-22	—·043	+·023	+·011	—·022	—·004	—·018	+·023	+·012	+·050	+·042	+·022	+·030	+·011
Tropical India	22-24	+·026	+·023	—·017	—·031	+·001	+·002	+·026	+·016	+·006	0	—·013	+·027	+·005
Whole India	43-46	—·007	+·022	—·004	—·027	—·002	—·008	+·025	+·014	+·027	+·020	+·003	+·028	+·008

TABLE XXI.—*Geographical summary of the relative humidity departure data of Table II in the Monthly Weather Reviews of 1906.*

METEOROLOGICAL AREA.	Number of stations.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
North-West Himalayas	4-5	—1	+3	+5	—5	—6	—1	—3	0	+6	+7	—2	+3	+1
Sikkim Himalayas and Nepal	2	—1	+5	+5	—2	—5	—3	—1	0	—3	—1	+2	—2	—1
Punjab Plains	3	—6	+13	+10	+1	—3	0	—3	+4	+11	+3	+1	+8	+3
Gangetic Plain	3	—10	+11	+7	—4	—6	—6	+2	+3	+4	+1	0	+4	+1
Western Rajputana	4	—11	+13	+7	—1	—2	+2	+1	+2	+8	+8	+4	+2	+3
Eastern Rajputana and Central India.	1	—20	+5	—1	—6	—12	—6	—5	—13	+4	—4	—11	—2	—6
Nerbudda Valley	1	—15	—2	—3	—6	—5	+3	+2	—1	+5	0	—2	+4	—2

TABLE XXI.—*Geographical summary of the relative humidity departure data of Table II in the Monthly Weather Reviews of 1906*—concld.

METEOROLOGICAL AREA.	Number of stations.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
Chota Nagpur	1	0	+23	+15	—4	—1	—7	—4	—3	—2	+6	+3	+7	+3
Lower Bengal	2	—2	+6	+4	—2	—2	—3	—2	—3	+1	—1	—2	—3	—1
Orissa	1	—1	—2	—6	—1	—4	—2	0	0	+1	—1	—1	+1	—1
Central Provinces (South) and Berar.	5	—10	+5	+4	—4	—3	+2	+4	—1	+3	—3	—4	+3	0
Konkan	2	—1	—1	0	+1	—1	—2	+2	0	0	—2	—3	—2	—1
Deccan, Hyderabad and Mysore	7-8	+3	+3	—3	—9	—5	—1	+1	+2	+2	+3	—3	+3	.0
East Coast and Carpatic . .	2-3	+6	+8	+6	+2	0	+4	+8	+5	—1	—1	—1	+5	+3
Arakan and Pegu . . .	3	—2	—2	—3	0	—2	—1	—1	—2	0	—3	—2	—2	—2
Bay Islands	1-2	+5	—2	—1	—4	—5	—1	—3	—2	—4	+1	—4	—1	—2
Extra-Tropical India . . .	21-22	—6	+10	+6	—3	—4	—2	—1	0	+5	+3	0	+2	+1
Tropical India	22-24	0	+3	0	—4	—3	0	+1	+1	+1	0	—3	+2	0
Whole India	43-46	—3	+6	+3	—3	—4	—1	0	+1	+3	+1	—1	+2	0

TABLE XXII.—*Departure of the mean monthly and annual aqueous vapour pressure from the normal in the nine meteorological provinces of India in 1906.*

METEOROLOGICAL PROVINCE.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
	"	"	"	"	"	"	"	"	"	"	"	"	"
Burma Coast and Bay Islands . .	+·053	—·004	—·025	—·021	—·006	+·006	+·009	—·008	+·003	—·032	—·040	+·018	—·004
Bengal and Orissa	—·011	+·022	—·051	+·021	+·007	—·006	+·017	+·001	+·014	+·016	+·014	+·023	+·006
Gangetic Plain and Chota Nagpur . .	—·047	+·032	+·030	—·066	+·002	—·032	+·005	—·021	+·014	+·024	+·002	+·041	—·001
Upper Sub-Himalayas	—·040	+·037	+·035	+·002	—·003	—·032	+·043	+·027	+·069	+·047	+·019	+·048	+·021
Indus Valley and North-West Rajputana	—·041	+·029	+·033	—·015	+·046	+·025	+·027	+·052	+·081	+·085	+·069	+·039	+·036
East Rajputana, Central India and Gujarat	—·103	+·021	—·017	—·061	—·075	—·019	+·034	—·006	+·032	+·038	—·016	+·011	—·009
Deccan	—·021	—·001	—·023	—·044	—·002	+·006	+·036	+·018	+·007	—·013	—·016	+·035	—·002
West Coast	—·007	—·058	—·062	—·027	+·018	—·008	+·015	+·014	+·005	—·015	—·007	+·001	—·011
South India	+·076	+·070	+·007	—·035	+·011	+·003	+·026	+·028	+·004	+·022	—·004	+·012	+·021

TABLE XXIII.—*Departure of the mean monthly and annual relative humidity from the normal in the nine meteorological provinces of India in 1906.*

METEOROLOGICAL PROVINCE.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
Burma Coast and Bay Islands	+2	−2	−1	−3	−3	−2	−2	−3	−3	+3	−4	−2	−2
Bengal and Orissa	−2	+2	−2	0	−2	−2	−1	−1	+2	+1	−1	−2	−1
Gangetic Plain and Chota Nagpur	−7	+17	+8	−6	−3	−7	−1	−2	−1	+2	0	+4	0
Upper Sub-Himalayas	−6	+12	+11	+1	−6	−3	−1	+5	+9	+3	+2	+5	+3
Indus Valley and North-West Rajputana	−8	+13	+10	−2	0	0	−2	+3	+5	+6	+4	+3	+3
East Rajputana, Central India and Gujarat	−16	+9	+1	−3	−7	−2	+1	−4	+9	+2	−6	+1	−1
Deccan	−4	+3	−2	−6	−2	+2	+3	0	+2	−1	−4	+3	−1
West Coast	−1	−1	0	+1	−1	−2	+2	0	0	−2	−3	+2	−1
South India	+4	+5	+1	−5	−4	+1	+1	+4	+2	+2	−2	+5	+1

I.—The cold weather period.

(*a*) The departures from normal of humidity were generally similar in character to those of the rainfall. In January the air was excessively dry, both absolutely and relatively, in north-west and central India; while the opposite condition prevailed in Madras, the greater part of Bombay and Burma. February, on the other hand, was a very damp month: except in Central India and the West Coast in every part of the country the absolute humidity was above the average and except in Madras, the Bombay Deccan and Berar the relative humidity also.

On the mean of the whole period the percentage of saturation did not differ appreciably from the normal over by far the greater part of the country.

Province or division.	DEPARTURE OF MEAN 8 HRS. VAPOUR PRESSURE FROM NORMAL IN—			DEPARTURE OF MEAN 8 HRS. RELATIVE HUMIDITY FROM NORMAL IN—		
	January.	February.	Period, January and February.	January.	February.	Period, January and February.
	"	"	"			
Burma	+·064	+·031	+·048	+2	+2	+2
Assam	−·004	+·023	+·010	0	+2	+1
Bengal	−·002	+·041	+·020	−1	+4	+2
Orissa	+·046	+·033	+·042	+2	+4	+3
Bihar	+·001	+·060	+·031	+1	+11	+6
Chota Nagpur	−·003	+·036	+·017	+2	+13	+10
United Provinces	−·047	+·017	−·015	−8	+7	−1
Punjab	−·047	+·021	−·013	−7	+7	0
North-West Frontier Province.	−·033	+·023	−·005	−6	+8	+1
Sind	−·053	+·017	−·018	−10	+9	−1
Rajputana	−·095	+·015	−·040	−18	+8	−5
Gujarat	−·065	+·012	−·027	−8	+8	0
Central India	−·101	−·003	−·052	−19	+3	−8
Central Provinces	−·062	+·024	−·019	−11	+3	−4
Berar	−·052	+·009	−·022	−7	−2	−5
West Coast	+·038	−·014	+·022	+5	+2	+4
Bombay Deccan	−·029	+·004	−·013	−6	−3	−5
Hyderabad	+·065	+·006	+·036	+2	+3	+3
Mysore	+·065	+·045	+·055	+6	+8	+7
Madras Coast	+·036	+·039	+·048	+2	−1	+1
Madras Deccan	+·070	+·013	+·042	+2	−1	+1
South India	+·064	+·028	+·046	+5	−2	+2

(*b*) In Baluchistan and the greater part of the western Himalayas where there was a large depression of temperature the relative humidity was very high, notwithstanding that the absolute quantity of vapour was but slightly above the normal.

Station.	DEPARTURE OF MEAN 8 HRS. VAPOUR PRESSURE FROM NORMAL IN—			DEPARTURE OF MEAN 8 HRS. RELATIVE HUMIDITY FROM NORMAL IN—		
	January.	February.	Period, January and February.	January.	February.	Period, January and February.
	"	"	"			
Chaman	−·004	+·013	+·005	+7	+23	+15
Quetta	+·004	+·019	+·012	+13	+19	+16
Murree	+·001	+·007	+·004	0	+15	+8
Gilgit	−·057	+·007	−·025	−22	+4	−9

Station.	Departure of mean 8 hrs. vapour pressure from normal in—			Departure of mean 8 hrs. relative humidity from normal in—		
	January.	February.	Period, January and February.	January.	February.	Period, January and February.
	"	"	"			
Srinagar	—·024	+·004	—·010	—1	+2	+1
Simla	—·008	+·014	+·003	+1	+14	+8
Leh	+·001	+·018	+·010	+9	+10	+10
Chakrata	—·002	+·009	+·004	+2	+13	+8
Ranikhet	—·032	—·014	—·023	—6	+3	+1
Darjeeling	—·015	—·006	—·011	—6	—1	—4

II.—The hot weather period.

(*a*) In this as in the cold weather season the abnormal features of the hygrometric conditions over a large part of the country were directly related to those of the rainfall distribution. The air was drier than usual in point both of absolute and relative humidity throughout the country with some local exceptions; the anomalies were however generally small save in the case of the Bombay Deccan where not only was the amount of moisture in decided defect of the normal but also the percentage of saturation.

(*b*) In the western Himalayas and Baluchistan the conditions were very nearly normal.

Province or division.	Departure of mean 8 hrs. vapour pressure from normal in—				Departure of mean 8 hrs. relative humidity from normal in—			
	March.	April.	May.	Period, March to May.	March.	April.	May.	Period, March to May.
	"	"	"	"				
Burma	—·007	—·002	—·024	—·011	0	—1	—7	—3
Assam	—·015	+·016	—·007	+·002	+1	+2	—2	0
Bengal	—·019	+·035	+·004	+·007	+4	+1	0	+2
Orissa	—·072	+·003	—·036	—·035	—4	+1	—4	—2
Bihar	+·052	—·069	+·013	+·002	+12	—7	+1	+2
Chota Nagpur	+·081	—·145	—·015	—·026	+12	—12	0	0
United Provinces	+·021	—·090	—·037	—·032	+7	—8	—4	—2
Punjab	+·029	—·031	—·022	—·008	+11	+1	—6	+2
North-West Frontier Province	+·021	—·075	—·034	—·029	+7	—6	—6	—2
Sind	+·059	—·041	+·023	+·014	+4	—3	—2	0
Rajputana	—·005	—·038	+·014	—·010	+3	—1	—4	+1
Gujarat	+·003	—·054	+·054	+·001	+4	0	+4	+3
Central India	—·006	—·066	—·019	—·030	0	—5	—3	—3
Central Provinces	+·003	—·138	—·059	—·065	+3	—9	—7	—4
Berar	—·026	—·253	+·032	—·076	—3	—13	—1	—6
West Coast	—·038	—·023	+·023	—·013	0	—1	0	0
Bombay Deccan	—·098	—·230	—·067	—·128	—7	—15	—5	—9
Hyderabad	—·013	—·087	—·056	—·052	+3	—5	—3	—3
Mysore	—·037	—·003	+·018	—·007	—4	—5	—2	—4
Madras Coast	—·034	—·006	+·008	—·011	—3	—1	—7	—4
Madras Deccan	—·005	+·009	+·025	+·010	+1	—4	—1	—1
South India	+·020	—·007	+·033	+·015	+1	+3	0	+1

Station.	Departure of mean 8 hrs. vapour pressure from normal in—				Departure of mean 8 hrs. relative humidity from normal in—			
	March.	April.	May.	Period, March to May.	March.	April.	May.	Period, March to May.
	"	"	"	"				
Chaman	+·008	+·029	+·110	+·049	+19	+12	+15	+15
Quetta	+·043	—·063	—·029	—·026	+13	—6	—9	+1
Murree	—·002	—·022	+·014	—·003	+7	—1	—2	+1
Gilgit	—·008	—·008	+·048	+·011	—2	+2	+14	+5
Srinagar	—·019	—·029	+·002	—·015	—1	+1	+1	0
Simla	+·017	—·020	—·022	—·008	+9	—3	—6	0
Leh	—·004	—·013	—·014	—·010	0	—6	—7	—4
Chakrata	+·011	—·015	—·033	—·012	+13	—4	—9	0
Ranikhet	—·013	—·046	—·016	—·025	+3	—3	—6	—4
Darjeeling	0	—·002	—·024	—·009	+3	—6	—10	—4

III.—The south-west monsoon period.

(*a*) The hygrometric conditions of this period were much less abnormal than those of the two previous seasons. There was more moisture in the air than usual over the whole of India, with the exception of Orissa, Chota Nagpur, the Central Provinces, and Hyderabad, but the excess was nowhere large. The relative humidity differed but little from the normal, though it was on the whole below in the field of the Bay current and above the average in the region served by the Arabian Sea current.

Province or division.	Departure of mean 8 hrs. vapour pressure from normal in—					Departure of mean 8 hrs. relative humidity from normal in—				
	June.	July.	August.	September.	Period, June to September.	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"					
Burma	+·002	+·032	+·025	+·021	+·020	+1	+1	—1	+1	+1
Assam	—·009	+·014	—·023	+·025	+·002	—1	—2	0	—1	—1
Bengal	—·007	+·024	—·001	+·021	+·009	—1	—1	0	0	—1
Orissa	—·041	+·019	—·001	—·005	—·007	—3	—1	—3	0	—2
Bihar	—·022	+·039	—·015	+·027	+·007	—3	+1	0	—2	—1
Chota Nagpur	—·033	—·001	—·025	+·007	—·018	—7	—1	—2	+2	—2
United Provinces	—·082	+·036	—·021	+·030	+·009	—9	+1	—1	+3	—2
Punjab	+·003	+·026	+·014	+·067	+·033	0	—3	+2	+10	+2
North-West Frontier Province	—·044	+·012	+·019	+·091	+·020	0	—1	+1	+8	+2
Sind	+·010	+·030	+·035	+·053	+·026	+1	—1	+2	+3	+1
Rajputana	+·012	+·038	+·001	+·048	+·025	+1	—2	—5	+5	0
Gujarat	+·034	+·029	+·008	+·026	+·024	+3	+1	+1	+3	+2
Central India	—·051	+·045	—·009	+·022	+·002	—6	+3	—3	+7	0
Central Provinces	—·045	+·021	—·006	—·013	—·011	—4	+1	—3	+2	—1
Berar	—·011	+·033	+·019	+·010	+·013	+1	+3	—1	+2	+2
West Coast	—·009	+·010	+·011	—·003	+·002	—2	+1	+1	—1	0
Bombay Deccan	—·012	+·015	+·027	—·014	+·004	0	+	+1	—1	+1

Province or division.	Departure of mean 8 hrs. vapour pressure from normal in—					Departure of mean 8 hrs. relative humidity from normal in—				
	June.	July.	August.	September.	Period, June to September.	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"					
Hyderabad	—·018	+·001	+·002	—·013	—·008	0	0	—2	—2	—
Mysore	—·010	+·019	+·028	+·003	+·010	—3	+2	+4	+3	+21
Madras Coast	+·001	+·038	+·042	+·001	+·021	+1	+2	+5	—2	+2
Madras Deccan	+·005	+·005	+·020	+·010	+·010	+3	+14	+7	+2	+2
South India	+·005	+·016	+·031	—·005	+·012	—	+1	+6	0	+2

(*b*) In Baluchistan and the hill districts of upper India the conditions were similar in general character to those of the neighbouring plains.

Station.	Departure of mean 8 hrs. vapour pressure from normal in—					Departure of mean 8 hrs. relative humidity from normal in—				
	June.	July.	August.	September.	Period, June to September.	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"					
Chaman	+·166	+·082	+·049	+·015	+·087	+15	—5	+7	+9	+7
Quetta	—·096	+·003	+·086	—·001	+·013	—4	—4	+4	—3	—2
Murree	+·046	—·008	+·060	+·073	+·043	+5	—5	+9	+14	+6
Gilgit	+·035	—·070	—·068	—·013	—·029	+3	—9	—9	—7	—4
Srinagar	—·018	+·013	+·033	+·027	+·014	+1	—3	—3	—2	—2
Simla	—·035	+·015	+·003	+·029	+·003	—5	0	+4	+6	+1
Leh	—·003	—·005	—·005	+·050	+·009	+1	—5	—7	+6	—1
Chakrata	—·051	+·010	+·008	+·048	+·004	—3	0	+3	+7	+1
Darjeeling	—·017	+·022	+·006	+·034	+·011	—4	—3	0	—3	—3

IV.—The retreating south-west monsoon period.

(*a*) Despite the deficiency of rainfall the air was damper than usual in most parts of the country, particularly in the Punjab, the North-West Frontier Province and upper Sind.

Province or division.	Departure of mean 8 hrs. vapour pressure from normal in—				Departure of mean 8 hrs. relative humidity from normal in—			
	October.	November.	December.	Period, October to December.	October.	November.	December.	Period, October to December.
	"	"	"	"				
Burma	—·015	+·012	+·044	+·014	0	+1	+1	+1
Assam	—·014	+·005	—·019	—·009	—1	—1	—2	—1
Bengal	+·018	+·024	+·016	+·019	+1	0	—1	0
Orissa	—·015	—·005	+·026	+·002	—2	—1	—1	—1
Bihar	+·037	+·008	+·035	+·027	+2	0	+5	+2
Chota Nagpur	+·028	—·004	+·034	+·019	+4	0	+5	+3
United Provinces	+·027	—·001	+·027	+·018	+1	0	+6	+2
Punjab	+·035	+·038	+·062	+·062	+5	+3	+9	+6

Province or division.	Departure of mean 8 hrs. vapour pressure from normal in—				Departure of mean 8 hrs. relative humidity from normal in—			
	October.	November	December.	Period, October to December.	October.	November.	December.	Period, October to December.
	"	"	"	"				
North-West Frontier Province.	+·100	+·038	+·074	+·071	+5	+1	+11	+6
Sind	+·082	+·094	+·031	+·069	+7	+8	+7	+7
Rajputana	+·034	—·002	+·006	+·013	—1	—6	—1	—3
Gujarat	+·022	+·014	+·005	+·014	+1	—1	—2	—1
Central India	+·040	—·009	+·006	+·012	+7	—4	+1	+1
Central Province	+·008	—·017	+·023	+·003	+2	—2	+5	+2
Berar	—·005	+·031	+·033	+·036	—1	—1	+10	+3
West Coast	—·012	+·008	+·047	+·014	—2	—1	+3	0
Bombay Deccan	—·050	—·031	0	—·027	—7	—4	—1	—4
Hyderabad	+·014	—·011	+·028	+·010	0	—4	+1	—1
Sore	+·025	+·018	+·047	+·030	+3	+2	+4	+3
Madras Coast	+·016	—·001	+·014	+·020	+1	+1	+4	+2
Madras Deccan	+·044	+·006	+·026	+·025	+6	0	+5	+4
South India	+·022	+·031	+·060	+·033	+4	+3	+6	+4

(*b*) The air was on the mean of the period more humid than usual in Persia, Baluchistan and the Punjab Himalayas. Conditions were different in Kashmir where the vapour tension was normal and the relative humidity rather below it.

Station.	Departure of mean 8 hrs. vapour pressure from normal in—				Departure of mean 8 hrs. relative humidity from normal, in—			
	October.	November	December.	Period, October to December.	October.	November.	December.	Period, October to December.
	"	"	"	"				
Bushire	+·105	+·071	+·092	+·089	+12	+14	+20	+15
Jask	+·098	+·101	+·018	+·072	+10	+9	+3	+7
Chaman	+·079	+·048	+·044	+·057	+18	+24	+11	+18
Quetta	+·019	+·014	+·013	+·015	0	+3	+5	+3
Murree	+·073	+·020	+·024	+·039	+13	0	+4	+6
Gilgit	+·014	—·025	+·010	0	—5	—14	—4	—8
Srinagar	+·039	—·007	—·007	+·008	—6	—4	—7	—6
Leh	+·006	—·013	+·018	+·004	—5	—12	+4	—4
Simla	+·053	—·009	+·001	+·015	+11	—6	—3	+1
Chakrata	+·068	+·010	+·020	+·033	+18	—1	+4	+7
Darjeeling	+·011	+·034	+·002	+·016	—2	0	—8	—3

The year

(*a*) There was on the average of the whole year more vapour in the air than usual at 8 hrs; the percentage of saturation on the other hand was, owing to the prevalence of high temperature, exactly normal.

(*b*) The driest months of the year in point of absolute humidity were January and April, and the dampest February, July, September, October and December. These departures from the normal were conditioned mainly by the distribution of rainfall except in the case of October during which month the excess of moisture was associated with scanty rainfall.

(*c*) The part of India where the humidity was most largely and persistently above the average was the Indus Valley and North-West Rajputana, and next to it South India and the Upper Sub-Himalayas; the region of largest abnormal dryness on the other hand was along the West Coast.

Cloud.

Normal values of the mean monthly and annual amount of cloud at second class stations have been obtained from the whole of the available data up to the end of the year 1899 given in Tables XXXV and XXXVI of the Indian Meteorological Memoirs, Vol. XVII. These means are the arithmetical averages of the cloud amounts as registered at 10 and 16 hrs. and hence represent the mean amount during the day period rather than of the whole 24 hours.

Departure data of this element of meteorological observation for the year 1906 are given in Tables XXIV, XXV and XXVI. Table XXV gives the mean departure data for the sixteen meteorological areas adopted in the geographical summaries of the meteorological data in the Annual Reports previous to 1891, and Table XXVI gives similar data for nine meteorological provinces of India.

TABLE XXIV.—*Departure of the monthly and annual mean cloud proportion of 1906 from the average of past years.*

Meteorological Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma Coast and Bay Islands.	Port Blair	+0·9	−0·1	−1·3	−2·0	+0·1	+0·4	+0·4	+0·5	+0·5	+0·8	−0·4	+1·6	+0·2
	Rangoon	+2·3	+0·4	+0·3	−0·9	+1·2	+0·1	−0·5	−2·3	+0·3	+0·2	−0·4	+0·7	+0·1
	Diamond Island	+0·2	−0·2	−1·2	−1·8	+1·6	−0·7	−0·4	−1·4	0	−1·0	−1·7	−0·8	−0·6
	Cocos Island	+1·2	+1·2	−0·3	Observations discontinued									?
	Akyab	−0·5	+0·6	−1·1	+0·4	−1·1	−0·7	−0·8	−0·7	+0·9	−0·2	−0·7	+1·8	−0·2
Bengal and Orissa	Chittagong	+1·6	+1·4	−0·3	−0·3	−0·5	−1·0	−0·3	−0·9	−0·3	−0·7	−1·6	+0·6	−0·2
	Calcutta (Alipore)	+2·0	+3·0	+2·0	−2·0	−1·2	−0·1	−0·3	−0·5	+0·6	+0·7	−0·6	+1·7	+0·4
	Sangor Island	+2·7	+2·4	+0·4	−1·7	−1·2	+0·1	−0·3	−0·7	+0·4	−0·4	−1·2	+1·7	+0·2
	False Point	+3·0	+1·8	+0·7	−1·7	0	+0·4	+0·1	+0·4	+0·8	+1·2	−0·5	+3·4	+0·8
Gangetic Plain and Chota Nagpur.	Hazaribagh	+0·3	+2·8	+1·6	−1·8	−0·8	−0·4	−0·8	−0·7	−0·8	+0·1	−1·1	−0·8	−0·2
	Allahabad	−1·6	+3·3	+1·9	−0·9	−0·4	−0·5	+0·2	−0·1	−0·1	−0·3	−0·7	−0·2	+0·1
Upper Sub-Himalayas	Dehra Dun	−0·6	+1·6	+1·4	−1·3	−0·3	0	+0·2	+1·4	+0·9	−0·2	−0·6	0	+0·2
	Roorkee	−1·8	+0·9	+0·3	−1·1	−1·4	+0·2	−1·7	0	+0·3	−0·8	−1·0	−1·0	−0·6
	Lahore	−1·1	+1·2	+0·8	−0·6	−1·3	−0·8	−2·9	+0·1	+0·1	−0·5	−0·7	−0·3	−0·5
	Ludhiana	−2·5	−0·2	−1·6	−1·4	−1·5	−0·2	−2·1	−0·2	+0·2	−0·8	−1·5	−1·7	−1·1
Indus Valley and North-West Rajputana.	Peshawar	−1·7	+1·0	−0·1	−0·4	+0·5	0	−0·1	+0·9	+0·4	−0·5	−0·3	+0·3	+0·1
	Jacobabad	−1·2	+0·3	+0·5	−1·2	−0·5	0	−1·4	−1·3	−0·5	−0·4	−1·2	−2·3	−0·8
	Kurrachee	−0·3	+1·5	+1·5	+0·8	−0·1	+1·3	−0·5	+1·1	+0·6	+0·2	+1·0	−0·8	+0·5
East Rajputana, Central India and Gujarat.	Jaipur	−1·6	+1·7	+0·7	+0·1	−0·8	+0·3	−0·2	−0·8	+1·4	+0·1	−1·2	−1·2	−0·1
	Dessa	−1·4	+1·6	+0·7	−0·9	−1·2	−0·1	−0·1	+0·3	+1·3	+0·2	−1·2	−0·7	−0·1

TABLE XXIV.—*Departure of the monthly and annual mean cloud proportion of 1906 from the average of past years*—concld.

METEOROLOGICAL PROVINCE.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
DECCAN	Belgaum	+2·8	+0·6	−0·2	−1·9	−0·3	0	+0·4	+0·1	+0·2	−0·1	−0·7	+1·1	+0·1
	Sholapur	+2·0	+0·1	−1·0	−1·6	−0·3	+0·4	+0·6	+0·1	−0·4	+0·8	−0·1	+1·8	+0·2
	Akola	+0·7	+1·2	0	−1·4	−0·6	+1·2	+1·1	−0·2	+0·3	−0·5	+0·5	+1·6	+0·4
	Buldana	−0·4	+1·0	0	−2·2	−1·3	+1·5	+1·6	+1·3	−1·4	−1·0	−0·3	+0·2	0
	Khandwa	−0·3	+1·0	+0·2	−1·8	−1·6	−0·1	−0·6	0	+1·2	+0·	+0·6	+0·4	0
	Nagpur	+0·4	+1·1	+0·5	−2·6	−0·8	0	−0·7	−1·4	−1·4	−1·1	−0·8	+0·7	−0·5
	Hyderabad (Deccan)	+3·3	+0·2	+0·9	−0·7	+0·7	+0·9	−0·5	−0·2	−0·1	−1·8	−0·8	+2·2	+0·3
WEST COAST	Bombay	+0·5	+1·1	+0·3	−1·2	+0·5	+0·7	+0·8	+0·2	−0·7	−1·1	−0·3	−1·0	0
	Karwar	+0·8	0	−0·8	−1·5	−2·0	−1·0	+0·2	−0·7	−1·1	−1·9	−0·2	+0·8	−0·6
SOUTH INDIA	Salem	+1·8	+1·4	0	−1·0	+0·5	−0·5	+1·0	+1·1	+0·6	+0·7	+0·7	+1·6	+0·7
	Chitaldroog	+1·8	−0·3	−0·6	−2·6	−1·9	−0·6	−0·3	−0·4	−0·5	+0·9	−1·3	+1·6	−0·4
	Hassan	+2·6	−0·3	−0·5	−1·8	−0·9	+0·1	−0·2	+0·2	+0·2	+0·5	+0·1	+1·3	+0·1
	Mysore	+3·1	+1·4	+1·6	−1·1	−0·2	+0·6	0	0	+0·4	+0·3	−0·4	+1·9	+0·6
	Madras	+1·2	+0·5	+0·5	−1·7	−0·7	+0·7	−1·1	−1·0	−0·3	−0·9	+0·9	+1·4	0
	Bellary	+2·2	−0·2	−0·6	−2·4	−2·2	−0·9	−1·5	−1·6	−1·5	−0·6	−1·8	+1·4	−0·8
	Waltair	+4·2	+3·2	+0·8	−0·9	+0·7	+1·4	+0·7	+0·4	+0·9	+1·1	+0·2	+4·5	+1·4
HILL STATION, BALUCHISTAN.	Quetta	−1·4	+1·5	+0·9	−0·8	−0·4	+1·7	−0·5	+0·7	−0·2	−0·3	−0·1	−0·7	+0·1
HILL STATIONS, NORTHERN INDIA.	Leh	−0·6	+0·7	+0·2	+1·6	−0·1	−0·1	−1·6	−0·1	−0·8	−0·8	−1·3	+0·6	−0·2
	Srinagar	+1·7	+1·7	+1·5	+1·2	0	+0·4	+0·2	−0·1	+0·1	−0·8	−1·0	−0·3	+0·4
	Simla (Ridge)	−1·6	+1·9	+0·3	−1·0	−2·2	−0·5	−1·6	+0·6	+0·3	+0·3	−1·6	−1·0	−0·4
	Chakrata	−1·3	+0·3	0	−1·0	−1·3	−0·3	−1·7	+0·1	−0·5	+0·1	−1·0	−0·5	−0·6
	Ranikhet	−0·8	+2·0	+1·3	−0·8	−1·1	Observatory abolished							
	Katmandu	−1·9	+0·4	−0·4	−3·1	−1·0	−1·3	+0·2	0	−1·5	−1·5	−0·7	−1·0	−1·0
	Darjeeling	−0·5	+1·2	+2·0	+0·1	−0·3	−1·0	−0·7	−0·4	−1·1	+0·3	+0·4	−0·7	−0·1
HILL STATIONS, CENTRAL INDIA.	Mount Abu	−1·4	+2·5	+1·3	−0·7	−1·0	+1·1	+0·3	+0·4	+1·9	+0·3	−1·1	−0·3	+0·4
	Pachmarhi	−0·6	+1·3	+0·5	−2·2	−1·1	−0·5	−0·1	−1·2	+0·5	−1·6	−0·6	−0·7	−0·5
	Chikalda	+0·3	+1·9	+2·1	−1·7	+0·9	+0·4	−0·6	−1·7	+0·3	−0·6	−0·5	+0·2	+0·1
EXTRA INDIAN STATION.	Aden	−1·3	−0·4	+0·3	+1·1	0	−0·1	0	+0·7	+0·9	+0·3	+0·3	−0·3	+0·2
	Perim	−1·3	−0·1	−0·3	−0·9	−1·0	−1·2	−1·9	−1·5	−0·9	−1·0	−0·3	−1·2	−1·0
	Zanzibar	?	+2·3	+2·3	+1·3	+0·5	+0·5	+0·1	−0·2	0	−0·1	0	+1·3	?
	Port Victoria (Seychelles)	−0·5	+0·5	−0·4	+1·6	+0·3	−0·7	+1·1	0	−1·0	−1·3	−1·0	+0·2	−0·1
	Mauritius (Pamplemousses)	+0·1	+0·9	+1·7	+0·2	+2·0	+1·4	+1·7	+0·8	+1·1	+1·7	+0·2	+0·5	+1·0

TABLE XXV.—*Geographical summary of the cloud departure data of Table II in the Monthly Weather Reviews of 1906.*

METEOROLOGICAL AREA.	Number of stations.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
North-West Himalayas	4—5	—0·5	+1·4	+0·8	0	—0·9	—0·1	—1·2	+0·1	—0·2	—0·2	—1·2	—0·3	—0·2
Sikkim, Himalayas and Nepal	2	—1·2	+0·8	+0·8	—1·5	—0·8	—1·2	—0·3	—0·2	—1·3	—0·6	—0·2	—0·9	—0·6
Punjab Plains	8	—1·3	+0·9	—0·5	—0·3	—0·8	—0·3	—1·7	+0·3	+0·2	—0·6	—0·8	—0·6	—0·5
Gangetic Plain	3	— 5	+1·2	+1·2	—1·1	—0·7	—0·1	—0·4	+0·6	+0·4	—0·4	—0·8	—0·4	—0·1
Western Rajputana	4	—1·1	+1·5	+2·1	—0·5	—0·7	+0·6	—0·3	+0·1	+0·8	+0·2	—0·6	—1·0	0
Eastern Rajputana and Central India.	1	—1·6	+1·7	+0·7	+0·1	—0·8	+0·2	—0·2	—0·8	+1·4	+0·1	—1·2	—1·2	—0·1
Nerbudda Valley	1	—0·3	+1·0	+0·2	—1·8	—1·6	—0·1	+0·6	0	+1·2	+0·8	+0·6	+0·4	0
Chota Nagpur	1	+0·3	+2·8	+1·6	—1·3	—0·3	—0·4	—0·8	—0·7	—0·8	+0·1	—1·1	—0·8	—0·2
Lower Bengal	2	+2·4	+2·7	+1·2	—1·9	—1·2	0	—0·3	—0·6	+0·5	+0·2	—0·9	+1·7	+0·3
Orissa	1	+3·0	+1·8	+0·7	—1·7	0	+0·4	+0·1	+0·2	+0·8	+1·2	—0·5	+3·4	+0·8
Central Provinces (South) and Berar.	5	+0·1	+1·3	+0·6	—2·0	—0·5	+0·5	+0·3	—0·6	—0·1	—1·0	—0·3	+0·5	—0·1
Konkan	2	+0·7	+0·6	—0·3	—1·4	—0·8	—0·2	+0·5	—0·3	—0·9	—1·5	—0·3	—0·1	—0·3
Deccan, Hyderabad and Mysore	7	+2·5	+0·1	—0·1	—1·7	—0·3	+0·1	—0·3	—0·3	—0·2	0	—0·7	+1·7	0
East Coast and Carnatic	3	+2·4	+1·7	+0·4	—1·2	+0·2	+0·5	+0·2	+0·2	+0·4	+0·3	+0·6	+2·5	+0·7
Arakan and Pegu	4	+1·0	+0·6	—0·6	—0·7	+0·3	—0·6	—0·5	—1·3	+0·2	—0·4	—1·1	+0·6	—0·2
Bay Islands	1—2	+1·1	+0·6	—0·3	+2·0	+0·1	+0·4	+0·4	+0·5	+0·5	+0·3	—0·4	+1·6	+0·2
Extra-Tropical India	21—22	—0·7	+1·6	+0·8	—0·3	—0·9	—0·1	—0·7	0	+0·2	—0·1	—0·8	—0·4	—0·2
Tropical India	23—24	+2·5	+0·6	0	—1·5	—0·4	+0·1	0	—0·4	0	—0·3	—0·5	+1·3	+0·1
Whole India	44—46	+0·4	+1·1	+0·4	—1·1	—0·5	0	—0·4	—0·2	+0·1	—0·2	—0·6	+0·5	0

TABLE XXVI.—*Departure of the mean monthly and annual cloud amount from normal in the nine meteorological provinces of India in 1906.*

METEOROLOGICAL PROVINCE.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
Burma Coast and Bay Islands	+0·9	+0·4	—0·7	—1·1	—1·0	—0·2	—0·3	—1·0	+0·4	—0·1	—0·8	+0·9	—0·2
Bengal and Orissa	+2·3	+2·2	+0·7	—1·4	—0·7	—0·2	+0·2	—0·4	+0·4	+0·2	—1·0	+1·9	+0·3
Gangetic Plain and Chota Nagpur	—0·7	+3·1	+1·8	—1·4	—0·6	—0·5	—0·3	—0·4	—0·5	—0·1	—0·9	—0·5	—0·1
Upper Sub-Himalayas	—1·5	+0·9	+0·1	—1·1	—1·1	—0·2	—1·6	+0·3	+0·4	—0·6	—1·0	—0·8	—0·5
Indus Valley and North-West Rajputana	—1·1	+1·2	+0·6	—0·3	0	—0·4	+0·3	+0·2	+0·2	—0·2	—0·2	—0·9	—0·1
East Rajputana, Central India and Gujarat	—1·5	+1·7	+0·7	—0·4	—1·0	+0·1	—0·2	—0·3	+1·4	+0·2	—1·2	—1·0	—0·1
Deccan	+1·4	+0·2	0	—1·7	—0·5	+0·6	+0·3	0	+0·2	+0·1	—0·2	+1·2	+0·2
West Coast	+0·7	+0·6	—0·3	—1·4	—0·8	—0·2	+0·5	—0·3	—0·9	—1·5	—0·3	—0·1	—0·3
South India	+2·4	+0·7	+0·2	—1·6	—0·7	+0·1	—0·3	—0·2	0	+0·3	—0·2	+2·0	+0·2

I.—The cold weather period.

(*a*) Throughout the Peninsula, northeast India and Burma this was a very cloudy period: skies were also rather more overcast than usual in the United Provinces and the North-West Frontier Province. On the other hand the Punjab, Sind and Rajputana had rather less than the usual amount of cloud; the deficiency in these areas was however restricted solely to January.

Province or division.	Departure of mean 8 hrs. cloud amount from normal in		
	January.	February.	Period, January and February.
Burma	+0·9	+0·5	+0·7
Assam	+1·3	+1·9	+1·9
Bengal	+2·0	+2·4	+2·2
Orissa	+3·6	+2·3	+3·0
Bihar	+1·5	+2·1	+1·8
Chota Nagpur	+1·7	+3·2	+2·5
United Provinces	−1·1	+1·6	+0·3
Punjab	−1·5	+1·2	−0·2
North-West Frontier Province	−0·8	+1·6	+0·4
Sind	−1·5	+0·9	−0·3
Rajputana	−1·6	+1·8	−0·2
Gujarat	−0·4	+2·0	+0·8
Central India	+0·1	+3·7	+1·9
Central Provinces	+0·8	+1·5	+1·2
Berar	+0·4	+0·9	+0·7
West Coast	+1·9	+0·6	+1·3
Bombay Deccan	+1·3	+0·3	+0·8
Hyderabad	+2·7	+0·5	+1·6
Mysore	+2·7	+1·1	+1·9
Madras Coast	+2·1	+1·1	+1·6
Madras Deccan	+2·3	+0·8	+1·3
South India	+2·0	+1·2	+1·6

These departures agreed more closely with those of humidity rather than with those of rainfall.

(*b*) The proportion of cloud was greater than usual in Persia, parts of Baluchistan and Kashmir, and about normal in the Himalayan region.

Station.	Departure of mean 8 hrs. cloud amount from normal in		
	January.	February.	Period, January and February.
Aden	−2·5	−0·8	−1·7
Baghdad	+0·6	+1·6	+1·1
Bushire	+1·9	?	?
Jask	+2·4	+3·6	+3·0
Kabul	?	+1·8	?
Chaman	−2·5	+0·8	−0·
Quetta	+0·1	+1·4	+0·8
Cherat	−1·1	+2·0	+0·5
Murree	−2·1	+1·4	−0·4
Gilgit	+0·8	+2·2	+1·5
Srinagar	+1·4	+1·3	+1·4
Leh	+0·1	+1·9	+1·0
Simla	−0·9	+2·0	+0·6
Chakrata	−1·1	+1·5	+0·2
Ranikhet	−0·8	+1·0	+0·1
Darjeeling	−0·9	+1·2	+0·2
Mount Abu	−0·8	+3·2	+1·2
Pachmarhi	−0·9	+1·3	+0·2

II.—The hot weather period.

(*a*) The anomalies of cloud distribution were almost parallel with those of rainfall and humidity. Except in Bengal, Chota Nagpur, the North-West Frontier Province and Central India the cloud proportion was everywhere below the average of the period. The greatest defect occurred in the Bombay Deccan −1·2, and the largest excess in Central India +1·4.

Province or division.	Departures of mean 8 hrs. cloud amount from normal in			
	March.	April.	May.	Period, March to May.
Burma	−0·2	−1·0	−1·2	−0·8
Assam	+0·4	+0·6	−1·6	−0·2
Bengal	+0·7	−0·4	−0·3	0
Orissa	−0·1	−0·9	−1·0	−0·7
Bihar	+0·4	−0·8	−0·4	−0·3
Chota Nagpur	+1·6	−1·1	−0·6	0
United Provinces	+0·7	−0·6	−0·5	−0·1
Punjab	+0·6	−0·5	−0·9	−0·3
North-West Frontier Province.	+0·1	+0·5	+0·5	+0·4
Sind	+0·5	−0·2	−0·8	−0·2
Rajputana	+0·6	+0·1	−0·9	−0·1
Gujarat	+1·1	−1·0	−0·9	−0·3
Central India	+3·3	+0·1	+0·7	+1·4
Central Provinces	+0·9	−1·5	−0·3	−0·3
Berar	+0·3	−1·3	−0·1	−0·4
West Coast	−0·3	−0·9	+0·2	−0·3
Bombay Deccan	−0·7	−1·6	−1·3	−1·2
Hyderabad	+0·4	−1·2	−0·4	−0·4
Mysore	+0·6	−1·4	−0·9	−0·6
Madras Coast	+0·1	−1·2	−0·7	−0·6
Madras Deccan	+0·1	−0·9	−0·6	−0·5
South India	+0·5	−1·4	−0·8	−0·6

Station.	Departure of mean 8 hrs. cloud amount from normal in			
	March.	April.	May.	Period, March to May.
Aden	−0·5	+1·3	+0·9	+0·6
Baghdad	−0·7	+0·7	+2·1	+0·7
Bushire	+0·4	+1·6	+3·4	+1·8
Jask	+1·9	+2·8	+0·5	+1·7
Kabul	+0·7	+1·4	+2·0	+1·4
Chaman	+0·8	−0·4	−0·2	+0·1
Quetta	+1·3	−0·8	−0·1	+0·1
Cherat	−0·1	+0·6	+0·5	+0·3
Murree	−0·7	+0·3	−0·5	−0·3
Gilgit	+2·0	+2·0	+0·9	+1·6
Srinagar	+1·5	+1·6	+0·5	+1·2
Leh	−0·6	+1·2	+0·2	+0·3
Simla	+0·5	−1·5	−1·2	−0·7
Chakrata	+0·5	−1·2	−0·8	−0·5
Ranikhet	+1·3	−0·4	−1·5	−0·2
Darjeeling	+1·0	−0·3	−0·4	+0·1
Mount Abu	+1·3	−0·7	−0·3	+0·1
Pachmarhi	+0·2	−1·7	−0·4	−0·6

The data exhibit a marked contrast between the conditions of March and of the two succeeding months: in the former period the proportion of cloud was almost universally high and in the latter generally low.

(*b*) In Baluchistan and the Himalayan region the changes in the state of the skies were pretty much the same as in the plains of northern India.

In Persia, Afghanistan and Kashmir there was an excess of cloudiness in April and May, greater even than that in March, apparently an indication that the winter there was much more prolonged than in northern India.

III.—The south-west monsoon period.

(*a*) In most years the departures from normal of cloud during this period are parallel with those of rainfall, but in the monsoon period of 1906 this relationship was reversed over a large part of the country. Below are given the data illustrating this contrast:—

Province or division.	Departure from normal of period, June to September.		
	Cloud amount at 8 hrs.	Cloud amount at 10 and 16 hrs.	Rainfall.
Burma	−0·5	−0·5	−
Assam	−1·0	−	−
Bengal	−0·6	−0·3	+
Orissa	−0·9	+0·4	−
Bihar	−0·6	...	+
Chota Nagpur	−0·4	−0·7	−
United Provinces	−0·5	+0·1	+
Punjab	−0·4	−0·7	+
North-West Frontier Province	+0·2	+0·4	+
Sind	−0·2	+0·1	−
Rajputana	−0·3	+0·2	−
Gujarat	+0·1	+0·4	−
Central India	+1·6	...	+
Central Provinces	0	−0·4	+
Berar	+0·5	+1·1	+
West Coast	+0·3	−0·2	−
Bombay Deccan	−1·3	+0·2	−
Hyderabad	−0·2	0	+
Mysore	0	−0·1	+
Madras Coast	−0·6	+0·2	+
Madras Deccan	−0·6	−1·4	+
South India	−0·1	+0·6	+

The preceding statement shows that the state of the skies at 8 hrs. did not differ appreciably from the normal except in Central India, where there was considerably more cloud than usual, and in Assam, Orissa and the Bombay Deccan, over which areas the proportion of cloud was well below normal.

(*b*) In Baluchistan and the hill districts of northern India the amount of cloud was either very nearly normal or in excess:—

Station.	Departure of mean 8 hrs. cloud amount from normal in				
	June.	July.	August.	September.	Period, June to September.
Chaman	0	−0·3	+0·4	−0·2	0
Quetta	+1·7	−0·6	+0·3	−0·1	+0·3
Cherat	−0·6	+0·4	+2·3	+1·3	+0·9
Murree	−0·8	+0·5	+3·4	+2·0	+1·3
Gilgit	+0·7	+0·6	−0·9	−0·5	0
Srinagar	+1·0	−1·6	+0·4	−0·2	−0·1
Leh	+0·8	−0·6	+0·8	+0·4	+0·4
Simla	−0·5	−1·3	+0·1	+0·5	−0·3
Chakrata	+0·4	+1·2	+2·8	+0·4	+1·2
Darjeeling	−0·6	−0·6	+0·1	−0·9	−0·5
Mount Abu	+0·1	+0·4	−0·1	+2·4	+0·7
Pachmarhi	+0·1	+0·5	−1·0	+0·7	+0·1

IV.—The retreating south-west monsoon period.

(*a*) On the average of the period skies were less clouded than usual over Burma and the greater part of northern India where the autumn rains were deficient.

(*b*) In the Peninsula on the other hand there was more cloud than usual but the departures from the normal were neither uniform nor marked and were only in a few areas related directly to rainfall.

Province or Division.	Departure of mean 8 hrs. cloud amount from normal in			
	October.	November.	December.	Period, October to December.
Burma	−0·4	−0·4	+0·2	−0·2
Assam	0	−0·2	−0·3	−0·2
Bengal	−0·1	−0·9	+1·6	+0·2
Orissa	−0·2	−0·7	+2·7	+0·6
Bihar	+0·1	−0·7	+0·2	−0·1
Chota Nagpur	+0·4	−0·6	+0·9	+0·2
United Provinces	−0·7	−0·9	−0·8	−0·8
Punjab	−0·3	−1·0	−0·6	−0·6
North-West Frontier Province	−0·3	−0·4	+0·4	−0·1
Sind	0	−0·1	−1·8	−0·6
Rajputana	+0·1	−1·2	−1·3	−0·8
Gujarat	+0·2	−0·8	−0·4	−0·3
Central India	+0·9	0	+0·4	+0·4
Central Provinces	−0·4	−0·1	+0·8	+0·1
Berar	−0·9	+0·3	+1·0	+0·1
West Coast	−0·1	+0·9	+0·8	+0·5
Bombay Deccan	−0·9	+0·1	+1·1	+0·1
Hyderabad	+1·2	−0·7	+2·9	+0·9
Mysore	+0·3	−0·3	+1·6	+0·5
Madras Coast	−0·4	−0·4	+2·4	+0·5
Madras Deccan	+0·6	−0·7	+2·3	+0·7
South India	−0·3	+1·0	+1·7	+0·8

(*c*) In Persia the cloud proportion exceeded considerably that of an average autumn but this condition did not extend eastwards to Baluchistan and the hill districts of northern and central India.

Station.	Departure of mean 8 hrs. cloud amount from normal in			
	October.	November.	December.	Period, October to December.
Baghdad	+1·3	+1·2	+2·2	+1·6
Bushire	+0·2	+1·2	+2·5	+1·3
Jask	+2·3	+3·2	+1·6	+2·5
Kabul	+0·2	+0·6	+0·4	+0·4
Chaman	−0·4	−1·5	−2·2	−1·4
Quetta	−0·2	−0·9	−0·9	−0·7
Cherat	−0·1	−1·4	−0·1	−0·5
Murree	−0·5	−2·0	−0·2	−0·9
Gilgit	−1·2	−0·8	+1·3	−0·2
Srinagar	−1·4	−1·8	−1·0	−1·4
Leh	+0·1	−2·2	+0·9	−0·4
Simla	−0·2	−1·1	−1·2	−0·8
Chakrata	−0·3	−0·8	−0·5	−0·5
Darjeeling	−0·3	−0·2	−1·3	−0·6
Mount Abu	+0·5	−1·8	−0·7	−0·7
Pachmarhi	−1·1	0	−0·4	−0·5

The year.—On the general average of all the stations, skies were more clouded than usual in the first three months of the year and also in September and December; and abnormally free from cloud from April to August and again in October and November; the net result of the whole year was a defect of 0·1 (or only 1 per cent. of the sky expanse). The excessive cloudiness was most marked in February and the opposite condition in April. Both these features were common to the whole of India and were directly related to the anomalies of rainfall.

The statement below shows the departure of the mean amount of cloud in the Indian area annually during the period 1875-1906:—

Year.	Amount of Departure.
1875	0
1876	−0·2
1877	+0·3
1878	+0·1
1879	+0·1
1880	−0·1
1881	−0·1
1882	0
1883	+0·1
1884	−0·1
1885	+0·2
1886	+0·2
1887	−0·1
1888	−0·2
1889	+0·1
1890	+0·2
1891	+0·1
1892	+0·1
1893	+0·5
1894	+0·5
1895	+0·1
1896	−0·2
1897	0
1898	−0·2
1899	−0·3
1900	+0·2
1901	+0·1
1902	−0·1
1903	−0·1
1904	−0·3
1905	−0·2
1906	0

SNOWFALL.

(A)—The cold weather of 1905-06 and the succeeding hot weather.

(1) The snowfall in Baluchistan was much above the average and occurred during the normal period. That there was excessive snowfall in May also was suggested by the abnormally low temperature at Chaman from the 27th May to 3rd June.

(2) The precipitation was greatly in excess of the normal in Afghanistan (as represented by Kabul) in December and February and equally in defect in January and March. Conditions did not differ much from the normal in April. On the mountain ranges of the North-West Frontier Province on the other hand there were three falls of snow in April, one at the beginning of the month being exceptionally heavy and resulting in large accumulations of snow on the Sufed Koh, in Kohistan, in Kafiristan and on the Lagman hills. In May several light falls occurred on the higher peaks of the Sufed Koh.

(3) There were frequent falls of snow in Chitral in December and February and occasional falls in January, March and April. The precipitation of the period December to April was apparently above the normal, the excess occurring chiefly in April. The Lowarai pass was almost free from snow by the middle of May.

(4) In the Kashmir Himalayas the snowfall was heavy and frequent in March and April. Several falls occurred also in May and heavy snow was reported to be lying on the higher elevations. The unsettled weather in May apparently extended northward into Gilgit where the precipitation of the month amounted to 2·99″, the normal being 0·57.″ In Ladak the precipitation of the season was on the whole less than usual.

(5) In the Punjab Himalayas the falls were light till the end of January, but heavy falls occurred in February producing large accumulations of snow. The falls were repeated on the middle and higher ranges in March and April but were neither so heavy nor so extensive as before. A few falls occurred also in May, but they were generally light. The snow line descended to 10,000 feet in Pangi during the disturbed weather of May 7th to 10th when the Sach Pass received a fall of 2½ feet. It is remarkable that although the snowfall was light in the earlier part of the season the accumulation at the end of April was quite as great as on the corresponding date of 1905, a year of unusually heavy and prolonged snowfall.

(6) In the Kumaon hills moderate snow fell in December, January and April, and heavy snow in February and March. Snow to a depth of about two feet was reported to have fallen on the higher ranges of Garhwal in May. The snow line descended to much lower levels than usual in April and May. The accumulation at the end of April was deeper than at the same time in 1905.

(7) In northeast Persia and the mountainous region of eastern Turkistan the winter was not only severe, but ended abnormally late. At the end of May snow lay 6 feet deep on the summit of the Terek-Diwan (between Kashgar and Osh).

(8) The information for the Assam Himalayas although scanty appeared to indicate that the snowfall was considerably heavier than usual on the ranges bordering on the Darrang and Lakhimpur districts.

The most noteworthy features of the snowfall distribution thus were—

(*a*) much snow in Kashmir from March to May;

(*b*) heavy falls in the hills to the northwest of the Punjab in April;

(*c*) large accumulations of snow in parts of the western Himalayas and eastern Turkistan at the end of May;

(*d*) the very low elevation to which the falls descended in the Kumaon hills in April and May, a moderate fall in Garhwal in May; and

(*e*) excessive falls in parts of the Assam Himalayas.

(B) The south-west monsoon period, June to September.

During June there was no widespread heavy snowfall and in places the previous accumulations were disappearing fast. The fall on the Nuwe pass in Almora was however, heavy for the time of year, and the accumulation there at the close of the month was unusually deep. In July little or no snow fell in Kurram and Chitral. In Kashmir weather was on the whole drier than usual and the accumulations of snow there, although still unusually deep, were disappearing quickly. The snow line was lower than usual in the deeper valleys of the Pir Panjal range. Conditions were approximately normal generally in the hill districts of the Punjab. Weather was apparently more disturbed than usual in Almora and Garhwal, and the accumulation on some of the passes there was unusually large.

In August there was but little snowfall in Kashmir and the hill districts of the Punjab, though several light falls occurred locally in Spiti. Weather was more disturbed than usual in the Almora hills, where heavy snow fell on the higher passes. The melting of snow ordinarily proceeds fast at this time of year, but in consequence of the heavy snowfalls in the Almora hills during the month, the accumulation there at the end of August was as great as in July.

In September there were a few falls in the Simla hills but they were without exception light. The accumulation on the various passes near Kilba was very slight. About the middle of the month heavy snow fell in Kashmir and marked the termination of the rains in upper India. In the Almora hills weather was more disturbed than usual and the accumulation there was considerably greater than at the corresponding period of the previous year.

(C) The period October to December.

(*a*) In October the snowfall was heavy on the Sufed Koh in Kurram, the Lowarai pass in Chitral and in parts of Almora and Garhwal; and was light in Kashmir, the greater part of the Punjab Himalayas and on the Paghman mountains in Afghanistan. The quantity of snow accumulation on some of the higher peaks and passes in Almora was at least twice as great as that measured on the same dates of the previous two years.

(*b*) In November but little snow fell in the mountain zone bordering upper India, and at the end of the month there were no indications of an early winter. The accumulations in the Simla and Almora hills were apparently greater than in November 1905.

(*c*) Over the greater part of the mountain zone bordering upper India the snowfall of December was lighter than usual; there were no unusual accumulations except in Kumaon where in Malla Johar the depth of snow at the end of the month was believed to be double of that reported on the corresponding date of 1905.

Rainfall.

The rainfall data of India are now issued in a separate volume. The sixteenth volume, that of 1906, contains the whole rainfall data of 2,658 stations, which are there classified under their respective administrative divisions according to the following scheme :—

Province.	Number of stations.
Burma	183
Assam	122
Bengal, Bihar, Chota Nagpur and Orissa	415
United Provinces of Agra and Oudh	276
Punjab	188
North-West Frontier Province	33
Bombay	280
Madras	414
Coorg	10
Central Provinces and Berar	169
Mysore	77
Baluchistan	62
Kashmir	38
Rajputana	179
Central India	112
Hyderabad (Deccan)	22
Travancore	54
Cochin	8
Pudukkottai	11
	2,658

The information includes monthly statements of—

(*a*) the actual rainfall, day by day, of all the rainfall stations;

(*b*) the total rainfall of the month;

(*c*) the number of rainy days during the month;

(*d*) the average or normal rainfall of the month of all stations for which rainfall data of at least five years are available;

(*e*) the average or normal number of rainy days of the month for all stations for which rainfall data of five years or upwards are available;

(*f*) the accumulated rainfall (up to the date of each statement) throughout each of the seasons into which the year is divided.

Symons's rain-gauges are now used at all rain-gauge stations, with the exception of those in Mysore. The hour of measuring rainfall is 8 hrs. throughout India, and the amounts registered give the rainfall of the previous 24 hours, and hence generally of the previous civil day.

Table XXVII gives the departures of the monthly and annual rainfall in 1906 of 530 representative stations in India, including Baluchistan and Burma, as well as of 16 extra Indian stations.

The four tables (Tables XXVIII to XXXI) give summaries of the rainfall data of the year. In the first two tables (Tables XXVIII and XXIX) the summaries are drawn up in the form that was used for many years in the Annual Reports issued by the Department. In the two succeeding tables (Tables XXX and XXXI) the actual average rainfall data (derived from the returns of 2,658 rain-gauge stations in India) are given for the 57 meteorological districts for the four periods into which the year may be arranged. The four periods are :—

1st.—From January 1st to February 28th, which forms the period of the cold-weather rains of upper India.

2nd.—From March 1st to May 31st, which includes the hot season, when rain occurs mainly in the coast districts, and in Assam during thunderstorms.

3rd.—From June 1st to September 30th*, which forms the period of the south-west monsoon rains proper.

4th.—From October 1st* to December 31st, which includes the period of the so-called north-east monsoon rains of the Peninsula, more especially of the Coromandel Coast districts.

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1906 from the average of past years.*

Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Baluchistan.	Kalat	−1·28	+2·56	+0·36	−0·35	−0·26	+0·39	−0·41	−0·19	−0·04	−0·05	−0·34	−0·79	−0·40
	Pishin	−1·91	+3·14	+3·39	−0·70	−0·18	−0·03	−0·16	−0·16	−0·01	−0·05	−0·64	−1·04	+1·65
	Chaman	−0·60	+2·02	+1·38	−0·42	−0·08	−0·09	−0·11	+0·12	0	−0·04	−0·59	−0·50	+1·09
	Quetta	−1·17	+1·76	+2·56	−0·80	−0·31	−0·12	−0·47	−0·26	−0·11	−0·08	+0·06	−0·89	+0·17
	Mach (Railway Station.)	−0·86	+3·34	+2·01	−0·24	+0·02	−0·06	−0·99	+0·41	−0·03	−0·34	−0·19	−0·70	+2·37

* In Tables XXIX to XXXI however the 3rd and 4th periods are taken as including June 1st to October 31st and November 1st to December 31st respectively.

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1906 from the average of past years*—contd.

Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Baluchistan—*concld.*	Beleli	−0·83	+2·11	+2·57	−0·61	−0·29	+0·71	−0·09	−0·30	−0·03	−0·06	−0·56	−1·59	+1·03
	Kuchelak	−1·17	+0·91	+2·14	−0·65	−0·24	−0·02	−0·13	−0·16	−0·12	−0·10	−0·64	−1·61	−1·79
	Fort Sandeman	−0·41	+1·94	+1·49	−0·47	−0·39	−0·78	−2·27	+6·67	−0·06	−0·05	+0·17	−0·14	+5·70
	Bostan	−1·47	+1·63	+3·83	−0·27	−0·05	−0·18	−0·30	−0·16	−0·03	−0·09	−0·48	−1·73	+0·70
	Yarcokarez	−0·99	+2·62	+3·31	−0·65	−0·07	−0·04	−0·01	−0·15	0	−0·05	−0·48	−1·69	+1·80
	Syed Hamed	−1·24	+1·99	+1·69	−0·60	−0·03	−0·01	0	0	0	−0·07	−0·92	−0·76	−0·05
	Gulistan	+0·09	+3·65	+1·20	−0·53	−0·14	−0·04	−0·03	0	−0·04	−0·06	−0·85	−0·78	+2·47
	Killa Abdulla	−0·40	+3·54	+1·54	−0·93	−0·09	−0·03	−0·08	−0·02	−0·02	−0·10	−0·99	−1·10	+1·32
	Khanai	−2·04	−0·20	+2·87	−0·95	−0·01	+2·01	−0·17	−0·13	0	−0·07	−0·89	−1·04	−0·12
	Fuller's Camp	−1·54	−0·25	+2·49	−0·82	−0·33	+0·37	−0·41	+0·14	−0·06	−0·08	−0·88	−0·87	−2·24
	Kach	−2·12	+0·20	+1·16	−0·92	−0·35	−0·26	−0·30	+0·15	−0·11	−0·07	−0·51	−1·85	−4·98
	Mudgorge	−1·70	+1·55	+1·08	−0·63	−0·29	−0·22	−0·42	+0·42	−0·05	−0·09	−0·69	−0·94	−1·98
	Mangi	−0·56	+3·00	+0·87	−0·51	−0·24	−0·64	−0·34	+0·60	−0·12	−0·06	−0·66	−1·17	+0·17
	Dirgi	−1·23	+4·13	+1·85	−0·39	−0·32	−0·09	−0·48	+1·72	−0·30	−0·05	−0·66	−0·83	+3·10
	Khost	−1·16	+2·81	+0·16	−0·24	−0·24	+0·35	−1·16	+0·18	−0·20	−0·06	−0·96	−0·75	−1·27
	Shahrig	−1·47	+3·04	+0·67	−0·27	−0·31	+0·02	−2·14	−0·09	−0·41	−0·06	−0·60	−0·76	−2·38
	Nasak	−0·85	+2·81	+1·43	+0·02	−0·25	−0·72	+1·99	−0·80	+0·87	−0·08	−0·71	−1·01	+2·70
	Harnai	−1·10	+3·19	+4·07	−0·26	−0·17	+0·10	+1·14	−1·64	−0·60	−0·07	−0·52	−0·98	+3·16
	Sunari	−0·91	+2·90	+2·12	+0·18	−0·18	−0·38	−0·90	−2·18	−0·30	−0·08	−0·50	−0·77	−1·00
	Spintangi	−0·61	+2·26	+1·28	+0·31	−0·19	−0·72	+1·21	−0·32	+0·96	0	−0·33	−0·74	+3·11
	Mushkaf	−0·13	+2·56	+1·82	−0·03	−0·05	−0·17	−1·08	−0·66	+1·40	0	−0·07	−0·51	+3·08
	Baber Kach	−0·53	+2·33	+2·28	+0·01	−0·12	−0·31	−0·70	−1·07	+0·87	−0·03	−0·27	−0·59	+1·87
	Loralai (Hospital)	−0·18	+2·84	+0·89	+0·13	−0·68	+0·12	−1·12	+0·69	−0·22	−0·08	−0·25	−0·17	+2·02
	Nari	−0·48	+1·05	+1·54	−0·08	−0·06	−0·25	−1·51	−0·71	+0·65	−0·01	−0·17	−0·51	−0·54
	Sibi	−0·58	+2·55	+0·95	−0·02	−0·06	−0·22	−1·27	−0·73	+0·97	0	−0·17	−0·61	+0·81
	Kolepur	−1·14	+2·42	+1·65	−0·51	−0·17	+0·11	−1·00	+2·53	−0·08	−0·03	−0·21	−1·30	+2·27
	Hirok	−1·72	+3·61	+1·22	−0·48	−0·10	+0·12	−1·13	+1·81	+0·53	−0·07	−0·97	−1·19	+1·63
	Mitri	−0·41	+2·49	+0·69	−0·29	−0·01	−0·22	−1·25	+0·79	+0·41	−0·01	−0·15	−0·43	+1·61
	Lindsay	−0·30	+2·30	+1·23	−0·07	−0·13	−0·10	−0·39	−0·75	+0·48	0	−0·12	−0·39	+1·26
	Bellput	−0·28	+2·84	+3·87	−0·07	−0·03	−0·17	−0·98	+0·78	+2·02	0	−0·15	−0·27	+7·56
	Nuttal	−0·35	+1·63	+2·77	−0·10	−0·22	−0·09	−1·07	−0·32	−0·05	0	−0·35	−0·40	+1·45
	Temple Dera	−0·37	+2·11	+0·30	−0·07	−0·02	−0·18	−0·97	−0·77	+0·06	0	−0·18	−0·28	−0·37
	Jhalput	−0·20	+2·28	+0·63	−0·03	−0·09	−0·12	−0·63	−0·50	−0·08	0	−0·18	−0·24	+0·84
	Sangal	−0·81	+0·91	+2·85	−0·39	−0·06	+0·49	−0·13	+0·05	0	−0·08	+0·24	−1·40	+1·67
	Shulabagh	−1·97	+1·41	+2·75	−0·33	+0·38	+0·60	−0·40	−0·02	0	−0·10	−0·39	−0·54	+1·39
	Panir	−0·53	+2·75	+0·82	−0·03	−0·02	−0·08	−0·61	+1·15	+0·27	−0·01	−0·09	−0·58	+3·04

TABLE XXVII—*Departure of the monthly and total rainfall (in inches) in 1906 from the average of past years*—contd.

Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
PUNJAB AND NORTH-WEST FRONTIER PROVINCE.	Abbottabad	+0·02	+6·83	+4·83	−1·66	−0·85	+1·10	−2·52	−1·02	−0·99	+0·13	−0·93	+0·12	+4·56
	Cherat	−2·26	+4·06	+0·89	−1·92	−0·96	−0·52	−2·39	+2·37	+2·86	+0·05	−0·12	+2·33	+4·41
	Murree (Obsy.)	+2·67	+12·56	+7·82	−1·52	−0·68	−0·24	−3·89	+1·28	+0·69	−1·05	−1·27	+0·40	+16·78
	Poo	−2·05	+0·07	−1·04	−0·32	−0·47	−0·24	−0·56	−0·33	+0·30	−0·49	−0·43	−1·10	−7·16
	Dharamsala	−3·04	+3·94	+0·42	−1·52	−1·82	+1·06	−6·95	+16·11	+3·96	−1·22	−0·35	−1·06	+9·53
	Kailang	−1·59	+1·59	−1·79	−3·33	−0·23	−1·16	−0·75	−0·45	+6·97	−0·27	−0·51	−1·16	−2·68
	Kilba	−3·03	−2·62	−0·95	−3·57	−2·52	−1·36	−2·41	−1·56	+0·43	−0·24	−1·58	−1·20	−21·27
	Simla (Obsy.)	−1·27	+4·38	+3·62	−1·90	−3·09	+3·83	−5·08	+24·66	+5·85	−1·19	−0·41	−0·68	+33·72
	Peshawar (Obsy.)	−1·54	+3·03	−0·64	−0·86	−0·20	−0·18	−1·10	−0·71	−0·04	+0·21	−0·58	+0·91	−1·70
	Kohat	−1·35	+2·25	−0·26	−0·10	+0·12	−0·01	−1·21	−1·48	−0·37	+0·10	−0·63	+2·14	−0·80
	Bannu	−0·82	+2·55	0	−0·72	−0·18	−0·32	−1·53	−0·36	+0·32	−0·04	−0·28	+1·46	−0·32
	Dera Ismail Khan	−0·44	+2·13	+0·58	−0·54	−0·38	+0·29	+0·88	+2·77	+1·57	−0·10	−0·15	−0·70	+6·51
	Dera Ghazi Khan	−0·41	+1·82	+0·47	−0·32	−0·34	+0·55	−1·63	−0·17	−0·45	−0·05	−0·11	+0·69	+0·05
	Muzaffargarh	−0·33	+1·55	+0·42	−0·09	−0·34	+0·12	−1·36	−0·99	+0·19	−0·08	−0·08	+0·21	−0·78
	Multan (Obsy.)	−0·39	+1·59	+0·29	−0·24	−0·39	+0·20	−2·17	−0·99	−0·33	−0·07	−0·06	+0·13	−2·43
	Jhang	−0·51	+1·77	−0·39	−0·36	−0·47	−0·79	−3·07	+2·93	+1·08	−0·14	−0·06	−0·34	−0·30
	Montgomery	−0·53	+1·10	+0·82	−0·12	+0·20	−0·16	−1·69	+1·03	+3·35	−0·10	−0·05	−0·02	+3·83
	Shahpur	−0·82	+2·15	+0·01	−0·45	−0·63	−0·13	−2·02	+4·53	−1·21	−0·04	−0·22	−0·30	+0·82
	Rawalpindi	−1·97	+4·58	+2·25	−1·16	−0·95	+1·11	−0·08	+8·30	+8·12	−0·29	−0·64	−0·04	+19·28
	Jhelum	−1·46	+4·84	−0·21	−0·75	−0·83	−0·10	−2·88	+4·87	+2·41	−0·45	−0·24	+0·24	+5·44
	Gujarat	−1·79	+5·96	−0·48	−0·92	−0·69	−1·65	−3·62	−1·00	+2·71	−0·39	−0·22	+0·76	−1·33
	Sialkot (Obsy.)	−1·48	+3·37	−0·01	−1·16	−0·75	−2·49	−3·32	−1·09	+8·77	−0·44	−0·26	+1·43	+2·57
	Gujranwala	−1·43	+2·57	−0·38	−0·49	−0·65	−1·24	−1·91	+2·66	+3·04	−0·41	−0·20	−0·01	+1·60
	Gurdaspur	−1·73	+2·57	+1·63	−0·39	−0·79	−0·93	−3·64	+3·77	+9·83	−0·49	−0·14	+0·49	+10·18
	Lahore	−0·86	+1·86	+0·27	−0·87	−0·63	−0·90	−4·19	−1·67	+6·59	−0·43	−0·11	−0·22	−0·66
	Amritsar	−1·21	+2·28	+1·08	−0·15	−0·38	−0·19	−5·98	−3·30	+4·92	−0·40	−0·18	+0·13	−3·38
	Ferozepore	−1·11	+2·84	+0·24	−0·51	−0·37	−0·89	−4·38	−1·36	+3·29	−0·51	−0·05	+0·54	−2·27
	Jullundar	−1·40	+2·41	+0·36	−0·53	−0·73	−1·64	−3·44	+4·83	+5·54	−0·38	−0·09	+1·14	+6·07
	Hoshiarpar	−1·70	+2·30	+0·30	−0·53	−0·45	−2·06	−0·65	+9·85	+7·17	−0·33	−0·13	+1·98	+15·75
	Ludhiana	−1·19	+2·80	+2·66	−0·51	−0·73	−1·25	−5·81	+0·28	+2·61	−0·81	−0·05	−0·28	−1·79
	Ambala	−0·49	+3·25	+1·32	−0·52	−0·88	+0·38	−3·05	+3·25	+2·96	−0·44	−0·24	−0·59	+4·97
	Sirsa	−0·70	+1·94	+1·08	−0·31	−0·64	−0·64	−1·96	−2·77	+3·35	−0·24	−0·02	+0·22	−0·69
	Hissar	−0·66	+1·51	+0·54	−0·23	−0·64	−0·30	−2·86	−0·89	+1·30	−0·27	−0·07	−0·43	−2·99
	Rohtak	−0·74	+1·23	+0·42	−0·24	−0·72	−2·06	+0·29	−0·84	+5·21	−0·34	−0·03	−0·51	+1·67
	Delhi (Obsy.)	−1·02	+1·31	+0·29	−0·25	−0·65	+2·71	−1·20	−3·92	+7·06	−0·39	−0·10	+0·05	+3·79
	Gurgaon	−0·66	+1·49	+0·85	−0·05	−0·50	+0·18	−1·37	−3·97	+9·44	−0·34	−0·04	+0·06	5·09
	Karnal	−0·81	+3·79	+1·26	−0·41	−0·97	−1·86	+0·46	−1·29	+1·68	−0·37	−0·12	−0·50	+0·86

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1906 from the average of past years*—contd.

Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Sind.	Kurrachee	−0·55	+1·65	−0·01	−0·13	−0·03	+0·87	−3·06	+0·90	−0·35	−0·04	−0·16	−0·19	−1·10
	Sehwan	−0·39	+2·02	+0·56	−0·16	−0·16	+0·19	−1·78	−1·35	−0·55	−0·03	−0·12	−0·14	−1·86
	Tatta	+0·25	+2·36	−0·11	−0·23	−0·01	+0·70	−3·54	+2·75	+0·48	0	−0·19	−0·09	+2·32
	Hyderabad (Obsy).	−0·25	+1·97	+0·65	−0·16	−0·12	+0·12	−0·29	−1·68	−0·30	0	−0·10	−0·05	−0·21
	Umarkot	−0·13	+0·55	−0·11	−0·08	−0·10	0	−2·69	−1·33	+2·86	−0·14	−0·05	−0·03	−1·25
	Shikarpur	−0·32	+1·63	+1·16	−0·19	−0·09	−0·05	−1·00	+2·38	−0·18	0	−0·12	−0·18	+3·04
	Rohri	−0·32	+1·03	+0·42	−0·26	−0·15	−0·22	−1·08	+2·49	−0·24	−0·01	−0·11	−0·19	+1·36
	Jacobabad	−0·26	+2·63	+1·16	−0·16	−0·15	−0·04	−1·21	−0·24	−0·01	−0·01	−0·12	−0·15	+1·44
Cutch.	Bhuj	+0·03	+1·63	−0·07	−0·09	−0·13	+2·37	−1·20	−0·98	+1·62	+0·86	−0·08	−0·06	+3·90
	Rhahpur	+0·16	+0·51	−0·05	−0·08	−0·15	+1·05	−3·48	+3·87	+0·78	−0·06	−0·16	−0·04	+2·35
	Nagar	−0·27	+1·43	+0·76	−0·08	−0·57	−0·11	−2·15	−1·90	+0·53	−0·05	−0·07	+0·06	−2·42
Rajputana.	Jaisalmer	−0·27	+1·46	+0·54	−0·12	−0·21	−0·63	−1·20	+2·57	+3·56	0	−0·04	+0·01	+5·67
	Phalodi	−0·17	+1·08	+0·28	−0·02	−0·27	−0·28	−3·31	+0·53	+0·47	0	0	−0·14	−1·83
	Bikaner	−0·38	+2·95	+0·70	−0·14	−0·84	−0·93	−2·09	+0·71	+0·91	−0·09	−0·06	+0·07	+0·81
	Nagar	−0·27	+1·43	+0·76	−0·08	−0·57	−0·11	−2·15	−1·90	+0·53	−0·05	−0·07	+0·06	−2·42
	Didwana	−0·41	+0·93	+0·23	−0·06	−0·34	−1·18	−3·00	−3·55	+0·48	−0·13	−0·13	−0·29	−7·45
	Jhunjhunu	−0·78	+1·48	+0·25	−0·06	−0·51	+2·35	−4·45	−3·52	+1·15	−0·14	−0·07	−0·29	−4·54
	Khetri	−0·68	+2·42	+0·65	−0·15	−0·48	+2·37	−4·25	−6·45	+2·36	−0·18	−0·15	−0·21	−4·70
	Sikar	−0·47	+1·41	+0·28	−0·10	+0·23	−1·71	−3·32	−4·81	+0·09	−0·20	−0·10	−0·30	−9·01
	Sri Madhopur	−0·46	+1·15	+0·44	−0·15	−0·45	+0·96	−4·04	−6·27	+1·35	−0·05	−0·18	+0·01	−7·69
	Alwar	−0·40	+1·49	+0·42	−0·11	−0·39	+1·20	+1·86	−7·44	+3·17	−0·72	−0·17	−0·22	−1·81
	Bharatpur	−0·38	+1·25	+0·40	−0·12	−0·61	+2·33	−5·37	−5·95	+10·14	−0·53	−0·05	−0·24	+1·05
	Bandikui	−0·40	+0·38	−0·18	−0·09	−0·09	−0·67	−0·11	−4·52	+3·22	−0·09	−0·16	−0·23	−2·94
	Jaipur	−0·43	+0·73	+0·32	−0·16	−0·43	−1·84	−3·28	−6·05	−0·24	−0·21	−0·16	−0·21	−11·96
	Sambhar	−0·30	+0·65	+1·17	−0·14	−0·79	−1·14	+0·41	−4·45	+0·53	−0·29	−0·22	+0·40	−4·14
	Karauli	−0·31	+0·68	+0·02	−0·09	−0·26	−1·39	−3·91	−8·74	+3·48	−0·12	−0·09	−0·29	−11·43
	Lalsot	−0·32	+0·19	−0·13	−0·06	−0·25	−1·86	−0·42	−8·72	+4·28	−0·15	−0·10	−0·02	−7·06
	Tonk	−0·19	+0·06	−0·10	−0·08	−0·37	−1·18	−2·27	−7·65	+2·68	−0·47	−0·07	−0·14	−9·78
	Siwai Madhopur	−0·29	+0·17	−0·14	−0·10	−0·29	−3·37	−2·22	−7·69	+1·32	−0·12	−0·10	−0·18	−13·01
	Deoli	−0·24	+0·27	−0·08	−0·16	−0·63	−1·77	+6·98	−8·40	+1·45	−0·39	−0·12	−0·19	−3·48
	Kotah	−0·25	+0·32	−0·09	−0·13	−0·78	−2·85	+7·94	−6·48	+2·66	−0·32	−0·15	−0·31	+0·56
	Jhalrapatan	−0·21	+0·54	+0·03	−0·05	+0·01	−1·35	−0·33	−7·09	+4·80	−0·51	−0·23	−0·47	−4·86
	Ajmer	−0·31	+0·35	+0·01	−0·13	−0·59	+1·27	+0·63	−4·02	+0·02	−0·27	−0·20	−0·04	−2·75
	Nasirabad	−0·17	+0·68	+0·46	−0·07	−0·54	−0·74	+4·45	−5·03	+2·14	−0·22	−0·18	−0·10	+1·63
	Malpura	−0·33	+0·52	−0·24	−0·05	−0·19	−0·93	+1·57	−6·26	−0·24	−0·02	−0·02	−0·08	−6·27
	Beawar	−0·22	+0·80	−0·16	−0·12	−0·38	−1·36	+2·82	−2·53	+2·99	+0·09	−0·18	+0·19	+1·94
	Jodhpur	−0·24	+1·68	+0·09	−0·06	−0·39	−1·25	+0·17	−3·06	+0·77	−0·19	−0·10	−0·03	−2·61

TABLE XXVII—*Departure of the monthly and total rainfall (in inches) in 1906 from the average of past years*—contd.

Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Central India.	Pachpadra	−0·34	+1·51	−0·10	−0·05	−0·67	−0·97	−1·10	−2·78	+1·39	−0·06	−0·09	−0·04	−3·30
	Jasol	−0·18	+1·04	−0·08	−0·05	−0·52	−0·35	−2·05	+0·58	+0·09	−0·01	−0·18	−0·04	−1·75
	Barmer	−0·15	+0·75	−0·07	−0·06	−0·43	−1·54	−0·92	+0·62	+2·03	−0·03	−0·11	−0·05	+0·04
	Pali	−0·12	+1·06	−0·09	−0·04	−0·32	−1·13	−0·28	+1·53	+6·43	−0·08	−0·52	−0·09	+6·62
	Shahpura	−0·12	+0·11	−0·11	−0·17	−0·67	−2·29	+12·00	−5·85	+3·67	−0·07	−0·10	−0·11	+6·29
	Erinpura	−0·17	+0·49	−0·10	−0·05	−0·42	−1·03	−0·39	+0·01	−0·22	−0·11	−0·19	−0·14	−2·32
	Sirohi	−0·15	+0·68	−0·08	−0·15	−0·75	−2·94	−2·22	+2·75	+4·36	+0·05	−0·22	+0·05	+1·38
	Mount Abu	−0·27	+0·81	−0·15	−0·08	−0·97	−1·89	−15·73	−10·20	+3·25	−0·87	−0·28	−0·19	−26·57
	Kotra	−0·11	+1·16	−0·03	−0·04	−0·65	0	−3·08	+1·11	+4·47	−0·39	−0·18	−0·15	+2·11
	Udaipur	−0·09	+0·61	−0·07	−0·11	−0·57	−1·27	+5·23	−2·26	−0·84	−0·27	−0·18	−0·17	+0·01
	Pratabgarh	−0·18	+0·73	−0·02	−0·03	−0·51	−1·20	−4·65	−3·42	+2·00	−0·64	−0·25	−0·26	−8·43
	Kherwara	−0·09	+0·95	−0·05	−0·02	−0·39	−1·33	+6·03	+0·73	−0·31	−0·49	−0·15	+0·05	+4·93
	Banswara	−0·26	+0·93	−0·01	−0·01	−0·31	−1·09	+1·64	−0·13	+5·98	−0·67	−0·22	−0·36	+5·49
	Neemuch (Obsy.)	−0·19	+0·93	−0·09	−0·13	−0·45	−1·72	+2·62	−8·55	+4·23	−0·64	−0·17	−0·27	−4·43
	Sirdarpore	−0·16	−0·01	−0·02	−0·02	−0·25	+0·41	−0·34	+4·26	−0·28	−0·40	−0·20	−0·14	+2·85
	Agar	−0·25	+0·71	+0·85	−0·06	−0·38	+1·48	+10·41	−2·72	+0·75	−0·56	−0·17	−0·88	+9·68
	Rutlam	−0·17	+0·53	−0·02	−0·03	−0·38	−1·06	+1·35	−0·43	+0·85	−0·87	−0·24	−0·24	−0·71
	Indore	−0·25	−0·03	−0·05	−0·17	−0·47	+3·45	+5·27	+3·94	+2·86	−0·96	−0·24	−0·18	+13·17
	Bhopal (Sehore)	−0·45	−0·18	−0·02	−0·05	−0·81	+2·48	+3·02	−0·10	+9·79	−1·15	−0·38	−0·36	+12·29
	Goona	−0·49	+0·96	+0·20	−0·12	−0·08	−4·16	+8·78	−11·95	+10·36	−0·39	−0·34	−0·32	+2·45
	Nowgong	−0·64	+0·42	−0·19	−0·10	−0·18	+1·45	−7·60	−9·46	+19·36	−0·13	−0·18	−0·84	+2·27
	Sutna	−0·54	+0·16	+0·51	−0·09	−0·31	+0·38	+1·38	−9·55	+14·26	−1·66	−0·26	−0·41	+3·87
	Nagode	−0·56	+0·06	+0·13	−0·14	−0·38	−2·05	+6·31	−7·03	+17·87	−1·98	−0·17	−0·47	+11·29
	Maihar	−0·08	+1·25	+0·06	−0·11	+0·11	−2·37	+6·36	−10·94	+8·39	−1·88	−0·44	−0·50	−0·15
	Rewah	−0·29	−0·12	+0·23	−0·24	−0·32	−6·12	0	−10·88	+12·19	−1·97	−0·29	−0·38	−8·19
	Ramnagar	−0·44	+1·03	+0·18	−0·05	−0·32	−4·38	+13·36	−10·22	+10·36	−1·89	−0·30	−0·49	+6·84
	Sihawal (Bardi)	−0·12	+0·48	−0·10	−0·03	−0·34	−1·36	+7·18	−8·75	+1·28	−1·38	−0·48	−0·49	−4·16
	Tyonthar	−0·90	+0·15	+1·65	−0·03	+0·24	−3·10	+1·43	−6·53	+6·65	−1·84	−0·17	−0·49	−2·99
	Sohagpur	+1·57	+1·00	+0·41	−0·39	−0·34	−1·47	−4·98	−4·23	+2·93	−2·23	−0·76	−0·46	−8·95
United Provinces.	Chakrata	−0·38	+6·55	+2·31	−1·25	−1·35	+3·03	−2·62	+13·55	+8·05	+0·24	−0·34	−0·15	+26·64
	Mussooree	−1·86	+3·79	−0·58	−1·45	+0·07	−1·03	−11·99	+2·68	+5·28	+0·43	−0·42	−0·27	−5·40
	Srinagar	−1·37	+2·64	+0·17	−0·71	+0·29	+3·79	−2·99	−2·99	+3·37	−0·72	−0·25	+0·24	+1·47
	Pauri	−1·56	+2·99	+1·39	−0·97	−0·95	+3·44	−2·79	−1·89	+5·92	−0·78	−0·30	+0·02	+4·52
	Ranikhet	−1·27	+3·51	−1·26	−0·54	−1·74	?	?	+5·74	+3·68	−1·18	−0·28	−0·28	?
	Almorah	−1·22	+2·25	−0·29	−0·29	−1·85	−0·68	−0·28	−1·21	+2·05	+0·47	−0·21	−0·23	−1·49
	Pithoragarh	−1·23	+1·91	−1·42	−1·13	−0·13	−4·17	−3·31	+2·66	+0·42	−0·99	−0·17	−0·13	−7·69
	Naini Tal	−1·08	+9·55	−0·39	−1·02	−1·22	−4·57	−6·22	+26·07	+0·21	−1·06	−0·25	−0·45	+19·07
	Dehra Dun	−1·99	+3·99	−0·56	−0·62	−1·37	+0·71	−1·88	+1·09	+2·74	−0·45	−0·21	+0·22	+1·67
	Saharanpur	−1·06	+1·30	+0·01	−0·19	−0·32	+4·90	−2·26	+1·35	+6·33	−0·45	−0·22	−0·43	+9·16
	Roorkee	−1·71	+4·94	−0·01	−0·28	−0·73	+12·11	−1·24	−0·25	+3·07	−0·58	−0·24	+0·16	+15·24

TABLE XXVII—*Departure of the monthly and total rainfall (in inches) in 1906 from the average of past years*—contd.

Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
United Provinces—*concld.*	Muzaffarnagar	−1·02	+2·06	−0·23	−0·32	−0·44	+4·75	−3·98	−2·47	+3·98	−0·34	−0·11	+0·14	+2·02
	Bijnor	−0·80	+2·22	+0·02	−0·46	−0·15	+14·33	−0·67	−1·58	+2·77	−0·45	−0·13	+0·80	+22·90
	Meerut	−0·92	+2·91	+0·18	−0·34	−0·59	+5·26	+1·46	−3·06	+3·80	−0·43	−0·08	+0·35	+13·54
	Moradabad	−1·21	+1·80	+0·54	−0·30	+0·39	+5·14	−5·04	−0·76	+2·08	−0·81	−0·12	−0·05	+1·66
	Budarpur	−0·64	+8·16	−0·56	−0·23	+0·28	+3·41	−8·55	−3·51	−1·37	−0·98	−0·08	−0·25	−4·33
	Pilibhit	−1·02	+2·66	−0·21	−0·32	−0·82	−1·99	−7·08	−0·24	−4·44	−1·08	−0·09	−0·39	−15·02
	Bulandshahr	−0·76	+1·53	+0·98	−0·27	−0·50	+8·63	−0·78	−2·35	+5·56	−0·42	−0·07	+0·86	+12·41
	Bareilly	−0·63	+3·12	+0·34	−0·25	−0·55	+3·08	+1·29	−2·41	−2·43	−1·16	−0·10	−0·11	+0·19
	Budaun	−0·78	+4·02	+1·75	−0·16	−0·44	+5·08	−0·60	−2·66	+2·94	−0·84	−0·10	−0·16	+8·05
	Shajahanpur	−0·31	+2·45	+0·33	−0·16	−0·80	+1·69	+4·55	+1·09	−2·90	−1·14	−0·13	−0·26	+4·41
	Aligarh	−0·67	+1·19	+1·21	−0·17	−0·45	+2·55	−1·43	−4·50	+1·15	−0·44	−0·04	−0·10	−1·70
	Muttra	−0·10	+1·15	+0·56	−0·17	−0·52	−0·05	−2·70	−3·60	+1·32	−0·35	−0·06	−0·27	−4·79
	Agra	−0·53	+0·73	+0·72	−0·16	−0·60	+2·90	−5·12	−3·25	+3·35	−0·39	−0·06	−0·11	−2·53
	Etah	−0·34	+1·78	+1·34	−0·09	−0·44	+5·56	−2·76	−3·55	+1·31	−0·76	−0·05	−0·18	+1·82
	Mainpuri	−0·57	+1·32	+0·20	−0·13	−0·45	+1·21	−4·73	−3·28	+2·48	−0·78	−0·10	−0·34	−5·17
	Farrukhabad	−0·52	+2·47	−0·01	−0·09	−0·38	+7·57	+3·02	+1·95	+0·39	−0·96	−0·09	−0·30	+12·96
	Etawah	−0·51	+1·72	+0·82	−0·12	−0·43	+2·12	−5·12	−1·23	−0·95	−0·90	−0·08	−0·31	−4·99
	Cawnpore	−0·74	+1·08	+0·85	−0·12	−0·40	+3·57	−1·12	−0·93	+2·65	−1·10	−0·13	−0·24	+3·37
	Fatehpur	−0·72	+1·29	−0·18	−0·14	−0·17	+0·97	−3·20	−3·67	+2·20	−1·01	−0·17	−0·28	−15·08
	Jalaun (Orai)	−0·48	+0·07	+0·11	−0·07	−0·29	+6·78	+0·16	−6·15	+3·95	−0·33	−0·05	−0·26	+3·44
	Hamirpur	−0·54	+0·98	+0·11	−0·09	−0·33	+1·90	+0·10	+0·49	+2·69	−0·05	−0·17	−0·34	+4·75
	Banda	−0·72	+0·45	−0·22	−0·10	−0·35	+4·35	+0·95	−3·30	+12·20	−1·16	−0·36	−0·28	+11·46
	Allahabad	−0·58	+0·01	−0·33	−0·14	+0·16	−2·64	−2·18	−2·29	−0·88	−2·46	−0·25	−0·23	−11·75
	Basti	−0·83	+2·69	−0·25	−0·24	−0·13	−2·84	−3·22	+5·92	−5·81	−2·46	−0·05	−0·11	−7·33
	Gorakhpur	−0·38	+1·67	−0·40	−0·38	−0·53	−4·00	+2·85	+6·40	−6·57	−2·94	−0·17	−0·13	−4·58
	Azamgarh	−0·50	+1·03	+0·18	−0·15	−0·76	−1·01	+0·36	+0·45	−4·19	−2·01	−0·10	−0·14	−6·84
	Jaunpur	−0·62	+1·65	+0·06	−0·12	−0·45	+2·19	+10·97	−3·71	−5·63	−3·16	−0·14	−0·14	+0·90
	Benares	−0·39	+0·89	+0·30	+0·04	−0·56	+0·83	+2·28	−0·40	−0·23	−2·24	−0·17	−0·17	+0·18
	Mirzapur	−0·41	+0·37	−0·18	−0·14	−0·51	−1·98	−1·45	−5·62	−2·94	−2·00	−0·27	−0·18	−15·31
	Ballia	−0·46	+2·51	+0·02	−0·26	−0·84	−3·63	+0·04	+4·41	−4·64	−1·80	−0·17	−0·12	−4·94
	Dudhi	+0·22	+1·09	+0·05	−0·21	−0·41	+2·63	−0·99	+5·39	+1·84	−3·06	−0·26	−0·30	−10·05
	Robertsganj	0	+0·44	+0·28	−0·21	−0·37	−0·55	+3·32	−5·73	−1·36	−2·64	−0·37	−0·27	−7·46
	Jhansi	−0·60	+0·22	+0·41	−0·13	−0·13	+0·75	−4·34	−6·20	+14·41	−0·64	−0·07	−0·27	+3·410
	Lalitpur	−0·54	+0·24	−0·03	−0·12	−0·44	−1·37	−1·57	−9·10	+13·37	−0·41	−0·17	−0·36	0
Oudh.	Kheri	−0·84	+4·54	−0·08	−0·21	−0·76	+3·52	−0·66	−1·14	−5·36	−0·99	−0·16	−0·38	−2·52
	Sitapur	−0·63	+4·89	−0·16	−0·27	−0·77	+3·11	−0·54	+3·70	−3·43	−1·30	−0·15	−0·32	+4·13
	Bahraich	−0·54	+3·63	−0·34	−0·35	−0·43	+0·62	+0·20	+3·07	−5·51	−1·44	−0·12	−0·39	−1·60
	Gonda	−0·40	+3·20	−0·13	−0·24	−1·08	−0·96	+5·14	+11·41	−5·21	−1·46	−0·10	−0·28	+9·89
	Hardoi	−0·68	+3·19	−0·1	−0·17	+0·10	+2·56	−1·30	+0·43	−0·31	−1·15	−0·12	−0·36	+2·06

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1906 from the average of past years*—contd.

PROVINCE.	STATION.	January.	February.	March.	April.	May	June.	July.	August.	September.	October.	November.	December.	TOTAL.
OUDH—*concld.*	Nawabganj (Bara Banki)	−0·85	+2·28	−0·38	−0·15	+1·05	+2·83	+16·53	+0·54	−5·21	−0·61	−0·07	−0·46	+15·45
	Lucknow	−0·88	+2·49	−0·14	−0·11	+1·47	+0·03	+9·29	−1·27	+1·41	−1·33	−0·08	−0·44	+10·44
	Unao	−0·84	+1·07	−0·05	−0·10	−0·45	−1·49	+0·96	−5·50	−1·92	−1·32	−0·09	−0·37	−9·10
	Fyzabad	−0·70	+2·66	−0·48	−0·17	−0·16	−0·07	+5·43	−0·41	−4·64	−1·94	−0·08	−0·29	−1·19
	Sultanpur	−0·63	+0·95	−0·22	−0·21	−0·24	+3·64	+0·30	−4·66	−3·30	−2·18	−0·15	−0·22	−6·92
	Rae Bareli	−0·68	+1·26	+0·01	−0·09	+1·47	−0·77	+0·44	−4·75	−1·55	−1·34	−0·12	−0·23	−6·35
	Partabgarh	−0·84	+1·03	+0·26	−0·04	+1·15	−1·19	+2·21	−5·67	−0·06	−2·07	−0·21	−0·29	−5·73
BENGAL.	Motihari	−0·55	+1·37	−0·44	−0·61	−1·50	+4·73	+4·75	+20·23	−7·42	−2·90	−0·12	−0·18	+17·41
	Darbhanga	−0·47	+1·30	−0·28	−0·69	−0·48	−2·18	+4·52	+14·69	−7·39	−2·49	−0·07	−0·11	+6·35
	Siwan	−0·59	+1·13	−0·13	−0·27	−0·26	−3·91	+2·60	+0·92	−6·70	−2·66	−0·17	−0·11	−10·15
	Buxar	−0·17	+0·66	−0·02	−0·14	−0·77	−0·41	+0·44	−1·89	−3·89	−0·84	−0·38	−0·19	−7·60
	Chapra	−0·06	+1·54	−0·12	−0·26	−0·40	+0·24	+4·15	+2·25	−3·68	−2·43	−0·25	−0·09	+0·89
	Arrah	+0·40	+1·12	+0·04	−0·47	−1·15	−1·27	−2·02	+9·60	−4·84	−1·86	−0·21	−0·13	−0·79
	Patna (Bankipore)	−0·13	+2·28	+0·07	−0·30	−0·72	−2·30	+3·80	−2·26	−2·62	−1·10	−0·20	−0·14	−3·62
	Muzaffarpur	−0·38	+1·33	−0·28	−0·47	−0·25	−1·02	+9·21	+14·76	−4·50	−2·40	−0·12	−0·07	+15·51
	Barh	+0·66	+2·25	−0·06	−0·30	−1·16	−0·65	+0·71	−2·88	−1·79	−2·20	−0·18	−0·09	−5·44
	Sasaram	+0·08	+1·13	+0·03	−0·12	−0·77	+0·65	−0·13	−3·13	+0·37	−0·71	−0·27	−0·23	−3·10
	Gaya	+0·17	+1·38	+0·02	−0·27	−1·08	+1·28	−2·78	+3·86	+1·75	+1·35	−0·27	−0·17	+5·24
	Jamui	+0·56	+2·57	+0·24	−0·44	+0·67	+1·32	−1·38	−0·08	−3·41	+2·37	−0·12	−0·07	+2·23
	Madhipura	−0·58	+1·66	−0·42	−1·07	−2·61	+8·33	+2·98	+11·20	−9·87	−1·49	−0·06	−0·05	+8·02
	Monghyr	+0·71	+1·69	−0·37	−0·46	+1·35	−1·82	−6·18	−3·41	−5·10	−3·00	−0·20	−0·07	−16·86
	Bhagalpur	+1·36	+2·25	+0·02	−0·78	+0·32	−0·62	−1·03	−4·49	−4·33	−2·36	−0·17	−0·07	−9·90
	Godda	+0·07	+3·10	+0·89	−0·19	−1·44	−1·79	−1·73	−2·60	−7·46	+1·38	−0·19	−0·08	−10·04
	Palamau	−0·11	+3·24	+0·76	−0·26	−0·89	−0·38	+9·79	−3·65	+1·88	−0·39	−0·31	−0·16	+9·52
	Hazaribagh	+1·54	+2·94	+0·49	−0·36	−1·18	−2·01	−6·63	−5·60	+2·13	−0·57	−0·17	−0·21	−9·63
	Ranchi	+1·38	+5·53	+0·39	−0·69	−0·53	−0·04	−0·72	+6·28	+0·89	0	−0·29	−0·14	+12·06
	Lohardaga	+1·41	+6·08	+0·08	−0·63	−0·91	−4·17	+7·20	−5·43	−3·68	−0·35	−0·46	−0·34	−1·20
	Naya Dumka	+0·79	+2·34	+0·35	−1·00	−2·74	−0·94	+4·44	−3·94	−5·85	+5·27	+0·09	−0·16	−10·23
	Gobindpur	+0·62	+2·53	+1·94	−0·61	−0·74	−3·86	−6·17	+2·31	−2·23	−0·49	−0·22	−0·16	−7·08
	Purulia	+2·15	+5·25	+0·24	−0·94	−0·94	−0·74	+4·26	−1·18	−1·89	−0·83	+0·02	−0·18	+5·22
	Sirguja	+0·58	+4·88	+0·40	−0·30	−0·67	−4·35	+8·25	−4·27	+3·26	−0·72	−0·55	+0·71	+7·22
	Jushpur	−0·78	?	?	?	?	?	?	?	+6·18	+2·24	+0·55	+0·15	?
	Gangpur	+1·25	+6·99	+1·50	−0·87	−0·71	−4·47	+0·54	−4·46	+2·83	+1·21	−0·01	−0·28	+3·52
	Chaibassa	+2·16	+7·45	+1·30	−1·03	−2·23	−3·82	+1·69	−3·49	−3·07	+1·74	+1·37	−0·05	+2·02
	Barreepudda	+1·59	+8·35	+1·06	−1·43	−2·02	−0·41	−2·23	−5·19	+0·53	−0·13	+0·01	−0·14	−0·01
	Keonjhar	+1·74	+7·54	+1·71	−1·18	−0·02	+1·15	−1·59	+5·28	+9·65	+0·20	−0·83	+0·15	+23·75
	Jellasore	+1·61	+2·94	+0·53	−1·36	+0·88	+1·66	−5·39	−5·47	+3·68	+0·69	−0·54	−0·13	−0·90
	Balasore	+2·18	+3·40	+4·20	−2·66	−2·93	−1·31	−1·07	−7·89	+1·76	−3·30	−0·40	−0·19	−7·91
	Bhadrak	+0·60	+5·62	−1·05	−2·11	−1·40	−1·86	−4·30	−7·05	+1·34	−1·95	−0·87	+0·10	−12·73
	Talcher	+1·00	+5·13	+0·46	−0·92	−1·46	−6·42	−1·26	−0·56	+1·61	−2·24	+0·84	+0·11	−3·71

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1906 from the average of past years*—contd.

PROVINCES.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
BENGAL—*contd.*	Narsinghpur	+1·51	+2·95	+2·29	—0·21	+1·78	+0·04	+1·29	—4·76	+0·74	—0·35	—0·25	—0·08	+4·95
	Sambalpur	+0·50	+2·97	+2·28	—0·57	—1·39	—4·57	+1·02	—5·71	—1·40	—0·15	—0·26	+0·09	—7·19
	Angul	+2·25	+1·37	+1·52	—1·18	—0·65	—7·57	+1·47	+1·54	+2·12	—3·43	—0·55	+0·04	—3·07
	Dhenkanal	+0·75	+2·70	—0·71	—0·63	+2·02	—2·51	—1·14	—2·53	—0·29	—1·50	—1·09	+0·02	—4·91
	Bispara	+1·02	+2·05	+1·24	—1·53	—1·38	—5·52	+1·70	—1·72	—0·15	—3·19	—0·67	+2·43	—5·67
	Kunjabangar	+0·17	+5·78	+5·04	—1·37	—2·18	+0·98	+5·03	+4·45	—2·85	—2·99	—0·70	+0·94	+12·85
	Banki (Charchika)	+0·13	+3·69	—1·14	+0·96	—1·25	+1·38	+2·01	—4·84	+3·85	—1·36	—1·39	0	+2·04
	Cuttack	+0·45	+2·81	—1·18	—1·21	+0·54	—3·14	—2·45	—6·62	—1·48	+0·40	—0·91	—0·18	—13·07
	Baramba	—0·09	+4·38	—0·28	—0·73	—1·52	+0·08	+5·10	—3·44	+3·62	—2·46	—0·56	+0·39	+4·59
	False Point	—0·32	+1·70	—1·00	—1·73	—2·22	—2·98	—9·41	—7·56	—3·56	+0·45	—2·58	—0·05	—29·26
	Puri	+0·96	+1·14	—0·55	—0·78	—1·31	—0·02	—3·64	—2·56	—4·62	—0·15	—2·37	—0·53	—14·44
	Darjeeling	—0·76	+1·72	—0·03	—3·64	+2·16	—3·79	+0·59	+9·50	—9·20	—4·73	—0·06	—0·20	—8·45
	Mongpoo	—0·85	+2·11	+0·35	—3·66	—0·06	—2·06	+7·23	+14·36	—9·62	—2·98	—0·13	—0·18	—2·44
	Pedong	—0·87	+1·39	—0·32	—3·60	—3·87	+1·51	—1·48	+5·90	—5·89	—2·14	+0·04	—0·51	—9·75
	Buxa	—0·76	+0·67	+0·99	—4·83	—13·66	—10·76	+8·39	+29·23	—10·21	0	—0·46	—0·40	—1·80
	Jalpaiguri	—0·46	+0·98	—1·22	—3·41	—7·26	—6·75	+5·17	+27·01	—11·30	—3·12	—0·14	—0·07	—0·57
	Cooch Behar	—0·43	+1·51	+0·78	—3·69	+5·26	+7·34	+18·89	+31·29	—9·66	+10·13	—0·14	—0·03	+59·20
	Kishanganj	—0·44	+1·77	—0·50	—1·47	+0·33	—0·01	+6·70	+7·26	—12·93	—0·48	—0·05	—0·09	+0·09
	Purnea	—0·17	+1·79	—0·14	—1·36	+0·30	+0·33	—0·22	+9·57	—9·90	—2·30	—0·07	—0·10	—2·27
	Rangpore	—0·10	+0·91	—0·67	—2·32	+0·93	—3·81	+7·06	+0·74	—9·15	+3·63	—0·19	—0·08	—8·55
	Dinajpore	—0·01	+1·05	+0·20	—1·92	—1·43	—2·44	+2·72	+1·49	—7·66	+3·54	+0·24	—0·03	—4·30
	Malda	+0·87	+2·28	—0·21	—1·32	—0·01	—2·63	—4·15	+0·67	—6·15	+5·15	+0·56	—0·25	—5·29
	Bogra	+0·50	+1·51	+0·25	—3·11	—0·10	—8·04	—4·36	+6·43	+2·58	+1·06	—0·27	—0·09	—2·04
	Rampur Boalia	+0·58	+1·86	+0·86	—1·81	—3·16	—2·82	—3·25	+5·36	—0·67	—0·20	+3·12	—0·06	—0·19
	Pubna	+0·17	+2·38	+0·35	—3·26	—0·35	—4·52	—3·56	+1·32	+0·13	+2·92	+1·42	—0·07	—3·01
	Suri	+0·55	+2·64	+0·94	—0·92	+0·24	—7·91	—2·22	+1·43	—4·71	+4·46	—0·26	—0·12	—5·83
	Bankura	+1·50	+3·76	+1·18	—1·52	—2·24	—2·88	+1·99	+0·42	—1·41	+3·16	—0·34	—0·13	+3·49
	Burdwan	+1·60	+5·56	+1·90	—2·20	+0·52	—4·98	—0·02	+6·19	+4·99	+2·97	—0·64	—0·13	—15·76
	Hooghly	+1·51	+7·06	+1·69	—2·46	—0·65	—4·75	—5·88	—3·57	—0·28	+0·67	—0·04	—0·19	—7·02
	Howrah	+1·32	+5·34	+1·03	—1·69	—0·91	—4·59	+0·48	—0·94	+0·87	+1·18	—0·09	—0·18	+1·71
	Midnapore	+1·04	+4·33	+3·43	—1·62	—1·47	—1·08	+4·14	—4·70	—3·10	+0·17	—0·07	—0·21	+0·66
	Tamluk	+1·01	+3·29	+1·05	—1·50	—3·28	—1·23	+2·23	—3·24	+0·39	+0·23	—0·13	—0·18	—1·36
	Berhampore	+0·41	+2·84	+1·63	—1·69	—2·06	—2·94	—2·51	+4·03	+0·72	—0·63	0	—0·10	—0·31
	Krishnagar	+2·06	+4·03	+1·10	—2·43	+0·29	—3·12	—2·21	—3·89	—1·33	+2·18	—0·57	—0·10	—1·99
	Faridpur	+1·02	+0·98	—0·28	—2·17	—0·31	—2·57	—1·17	+2·82	+1·22	+0·62	+1·76	—0·08	+2·76
	Jessore	+0·12	+5·24	—0·02	—3·90	+1·10	—7·51	—5·74	+4·30	+2·67	+0·38	+1·84	—0·15	—1·70
	Basirhat	+0·99	+3·35	—0·46	—2·26	—2·38	—3·61	—4·45	—4·77	—1·84	+4·18	—0·15	—0·14	—11·54
	Khulna	+0·15	+1·19	+0·22	—2·38	—1·91	—3·51	+0·13	—1·55	—0·85	—0·70	—0·54	—0·20	—10·09
	Barisal	—0·36	+2·19	—1·63	—2·51	+0·51	—5·76	—7·96	+6·29	+2·67	—1·43	0	—0·32	—8·26

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1906 from the average of past years*—contd.

Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Bengal—*concld.*	Alipore (Obsy.)	+1·49	+6·94	+0·24	−1·51	−1·62	−4·66	+0·38	−4·55	−2·10	+1·63	−0·27	−0·31	−3·64
	Saugor Island	+0·20	+0·56	−0·27	−1·02	−1·59	−1·37	+3·85	−9·25	−1·61	−5·17	−1·13	−0·20	−17·00
	Mymensingh	−0·29	+0·14	−0·55	−4·70	+5·37	−9·05	−7·90	+18·89	+13·76	+2·61	−0·44	−0·09	+17·77
	Kishorganj	+0·31	+0·53	+0·26	−4·05	+0·61	−9·28	−1·00	+21·92	+4·70	−1·11	+0·83	−0·22	+13·50
	Atia (Tangail)	+0·53	+1·01	+1·21	−2·73	−3·12	−3·29	−3·62	+2·58	+5·71	−0·33	+0·25	−0·08	−1·93
	Dacca	+0·06	+1·61	+1·77	−4·75	+3·41	−2·50	+1·85	+5·20	+8·42	−2·22	−0·63	−0·17	+12·05
	Comilla	−0·20	+0·51	−1·32	−4·83	−0·37	−1·62	−7·43	+15·17	+11·49	−2·25	+1·41	−0·22	+10·28
	Agartalla	+0·01	+0·56	−0·50	−1·45	+3·28	−2·04	+2·28	+15·89	+12·41	+2·25	+0·07	−0·35	+32·41
	Noakhali	−0·44	+0·79	−1·09	−2·77	+4·57	−2·52	−0·27	+1·43	+8·94	−3·77	+0·58	−0·35	+5·10
	Demagiri	−0·30	+0·72	−0·70	+1·26	+0·88	+4·24	+13·44	+4·30	+14·61	−0·94	+0·13	−0·06	+37·58
	Rangamatia Hills	−0·43	+1·91	−2·76	−1·80	+1·21	−3·87	+8·01	+3·33	+8·71	−3·17	+1·82	−0·48	+12·43
	Chittagong	−0·41	−0·01	−1·77	−1·29	−5·00	−12·02	+4·88	+13·94	+0·90	−3·53	+1·17	−0·58	−3·72
	Cox's Bazar	−0·48	+1·56	−1·22	−1·90	−1·22	+4·43	−2·33	−2·72	+7·07	−5·87	−0·40	−0·16	−3·25
Assam.	Sylhet	−0·35	−0·13	−2·69	+9·11	+5·62	−7·06	−1·56	+24·68	−3·99	+2·61	+0·82	−0·27	+26·79
	Silchar	−0·60	+0·75	−5·29	+12·05	+2·39	−5·01	−8·21	+9·03	−4·08	−1·82	+0·40	−0·54	−0·93
	Cherra Poonjee	−0·28	+4·36	−5·75	+13·51	−28·27	−54·89	+53·94	+43·33	−8·59	+0·69	+1·68	−0·23	+29·50
	Tura	−0·14	+1·80	+2·00	+5·51	+2·97	−0·76	+2·59	+33·70	+14·10	+10·34	+2·92	−0·11	+63·40
	Shillong	−0·25	+1·24	+1·09	−2·70	+1·03	−7·80	+9·16	+4·25	+0·62	+2·90	+3·72	−0·25	+13·01
	Dhubri	−0·30	+0·72	−1·42	−4·04	−7·29	−6·86	+17·87	+15·39	−1·74	+4·77	+0·11	−0·14	+17·07
	Goalpara	−0·39	+0·46	−1·03	−2·91	−4·61	−5·40	+3·47	+3·17	+7·64	+6·27	−0·12	−0·21	+6·84
	Kulsi	−0·40	+0·74	−0·11	−1·58	+1·41	−3·18	−0·37	−0·76	+0·72	+2·85	+0·67	−0·20	−0·21
	Gauhati	−0·27	+0·63	−0·53	−2·27	−3·19	+7·49	−2·97	−4·98	+1·34	+3·51	−0·08	−0·24	−2·56
	Nowgong	−0·60	+0·53	−1·43	−2·38	+1·20	−0·19	+6·98	−2·87	+2·40	+4·60	−0·12	−0·28	+7·84
	Tezpur	−0·59	+0·50	−0·39	−1·84	−4·28	−3·03	−1·05	+2·56	−0·06	+0·80	+0·17	−0·50	−7·71
	Chardwar	−0·80	+2·56	+0·90	+11·80	−1·29	+3·49	+11·93	+3·16	−3·83	+1·25	+0·11	−0·83	+28·45
	Sibsagar	−0·11	−0·05	+4·39	+15·54	+1·15	+8·52	−4·67	+9·24	−3·66	−2·73	−1·02	−0·56	+26·04
	Dibrugarh	−0·25	+0·84	−0·18	+10·06	−7·70	−2·98	−3·83	+2·36	−6·73	−3·27	+0·02	−0·83	−12·89
	Kohima	−0·51	+2·25	+0·68	−2·25	−0·17	−4·17	−7·70	−2·66	+2·87	−0·48	+0·82	−0·43	−11·75
Central Provinces.	Saugor	−0·67	+0·05	−0·05	−0·16	−0·41	−2·25	+4·65	−6·98	+9·02	−1·05	−0·33	−0·55	+1·27
	Damoh	−0·56	−0·29	+0·44	−0·20	−0·30	−0·13	+8·46	−4·35	+10·61	−1·18	−0·31	−0·47	+11·79
	Jubbulpore	+0·59	+0·77	+0·52	−0·22	−0·42	+2·55	+0·37	−9·22	+2·58	−1·55	−0·37	−0·26	−4·66
	Narsinghpur	−0·46	+1·22	+1·76	−0·24	−0·12	+0·96	−6·54	−3·06	−3·27	−1·44	−0·25	−0·38	−16·82
	Hoshangabad	−0·33	+0·10	−0·19	−0·07	−0·22	+0·33	+3·92	−2·80	−3·23	−1·31	−0·39	−0·44	−4·63
	Khandwa	−0·30	−0·20	0	−0·12	−0·30	+3·28	+2·80	+4·54	+5·01	−1·06	−0·15	−0·37	+13·13
	Badnur (Betul)	−0·46	−0·05	+0·47	−0·29	−0·36	+4·96	+1·64	+6·19	−2·77	−1·75	−0·39	+0·04	+7·23
	Pachmarhi	−0·64	+0·18	+0·34	−0·29	−0·01	+9·45	−1·59	−5·39	+1·26	−1·83	−0·41	−0·54	+0·50
	Chhindwara	−0·71	+0·59	+0·63	−0·34	−0·52	−0·57	+8·56	+0·37	−0·45	−1·59	−0·41	+1·22	+6·78
	Seoni	−0·66	−0·19	+1·51	−0·55	−0·57	+2·72	+3·33	+1·33	−3·34	−1·25	−0·43	+0·41	+2·11

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1906 from the average of past years*—contd.

Province	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Central Provinces—*concld.*	Balaghat	—0·43	—0·24	+1·26	—0·42	—0·42	+18·02	+2·61	—2·50	+2·75	—1·34	+0·11	+0·50	+19·90
	Mandla	+0·24	+1·25	+3·33	—0·46	—0·46	+1·46	+1·36	—5·63	+0·86	—1·59	—0·28	+0·26	+0·34
	Bilaspur	+0·50	+3·46	+3·34	—0·74	—0·86	—0·58	+3·70	—3·85	+1·19	—1·32	—0·56	+0·14	+4·42
	Sarangarh	+0·72	+2·90	+1·61	—0·35	—0·68	—3·63	—1·59	—6·77	+2·93	—0·75	+0·34	+0·08	—5·19
	Raigarh	+0·35	+4·79	+3·60	—0·30	—0·44	—5·87	—0·14	—4·59	+7·54	—0·20	—0·53	—0·16	+4·05
	Raipur	—0·29	+2·68	+1·90	—0·59	—0·52	—2·22	+1·17	—3·39	—1·94	—0·68	+0·34	—0·20	—3·74
	Dhamtari	—0·07	+1·34	+1·28	—0·36	—0·44	+1·36	—2·76	+2·63	—0·48	—0·97	—0·34	+0·11	+1·30
	Bhandara	—0·59	—0·33	+0·11	—0·13	+0·08	+5·11	—8·30	+6·18	—6·29	—1·60	—0·69	—0·02	—6·57
	Nagpur	—0·37	—0·11	+1·96	—0·46	+0·46	+10·05	+1·15	+12·58	—4·12	—1·94	—0·51	+0·07	+18·74
	Arvi	—0·04	—0·14	—0·23	—0·17	+0·47	+5·49	+1·59	+5·91	—5·45	—2·12	—0·34	—0·07	+4·90
	Wardha	+0·32	—0·08	+0·25	—0·35	+0·23	+5·56	+0·76	+6·44	—5·15	—2·08	0	—0·26	+5·64
	Brahmapuri	+1·43	—0·19	—0·24	—0·44	—0·59	+6·92	—4·35	+4·16	—4·92	—1·44	+0·27	—0·37	+0·24
	Chanda	—0·12	—0·30	+0·48	—0·70	—1·67	+6·83	+0·45	—1·19	—3·33	—1·94	—0·17	+0·21	—1·45
	Sironcha	+0·30	—0·38	—0·08	—0·37	—1·26	+4·40	+0·65	—3·12	—3·14	—1·42	—0·56	+1·73	—3·25
	Baster (Jagadalpore)	—0·11	—0·04	—0·47	—1·67	+0·86	+4·51	+4·62	+2·88	—2·43	—1·34	—0·24	+1·90	+8·47
Berar.	Chikalda	—0·44	—0·01	—0·23	—0·28	—0·36	+6·62	+3·07	+10·09	—2·83	—3·83	+0·07	+0·16	+12·03
	Ellichpur	—0·42	—0·22	—0·36	—0·25	—0·36	+8·18	—0·90	+13·21	—3·37	—2·23	—0·56	+0·51	+13·23
	Amraoti	—0·13	—0·07	—0·17	—0·26	+0·01	+4·20	+2·49	+4·56	—3·48	—1·62	—0·36	—0·07	+5·10
	Akola	+0·30	—0·15	—0·04	—0·16	—0·29	+1·83	+7·23	+3·10	—3·75	—2·14	—0·43	+0·33	+5·83
	Buldana	—0·33	—0·22	—0·21	—0·28	—0·50	+1·62	+5·56	—0·73	—2·49	—2·10	—0·48	+0·30	+0·14
	Basim	—0·24	—0·23	—0·43	—0·28	—0·47	+0·64	+0·90	+3·60	—4·79	—1·69	—0·35	—0·23	—3·57
	Yeotmal	+1·36	—0·24	—0·50	—0·35	—0·23	+6·90	+1·70	+1·81	—4·60	—2·36	+2·39	—0·28	+5·60
	Wun	+0·54	—0·23	—0·25	—0·38	+0·13	+6·13	+5·80	—0·66	—2·07	—0·46	—0·63	+0·61	+8·53
Bombay.	Dhulia	—0·27	—0·06	—0·04	—0·07	—0·27	+2·98	+1·00	+1·64	—3·39	—1·60	—0·62	—0·31	—1·01
	Nasik	—0·07	—0·06	—0·03	—0·14	—0·65	—0·12	—1·95	+1·49	—3·60	—1·82	—0·48	+0·15	—7·28
	Igatpuri	—0·14	+0·51	—0·03	—0·07	—0·88	+1·50	—7·98	—10·05	—1·54	—1·42	—0·40	—0·18	—20·68
	Malegaon	—0·17	—0·11	—0·04	—0·19	—0·67	—0·18	+1·46	+5·58	—3·95	—1·93	—0·45	—0·35	—1·00
	Ahmednagar	+0·08	—0·12	—0·15	—0·40	—1·12	+2·69	—1·24	+4·88	—5·51	—2·76	—0·74	+1·93	—2·46
	Poona	+0·27	—0·05	—0·18	—0·58	—1·37	+4·47	—3·10	+0·69	—2·59	—2·34	—0·73	—0·16	—5·62
	Lonavla	—0·06	+0·07	—0·06	—0·23	—0·65	—3·85	—15·42	—10·26	—2·65	—3·23	—0·72	—0·15	—37·21
	Satara	+0·01	—0·10	—0·10	—0·93	+0·13	+0·83	—2·77	+0·20	—0·97	—3·59	+0·78	0	—6·51
	Mahabaleshwar	—0·21	—0·05	—0·30	—1·26	—1·25	—3·68	—8·00	—29·79	—0·75	—4·14	+0·41	—0·16	—49·18
	Sholapur	+0·93	—0·08	—0·29	—0·63	—0·26	—0·29	—0·78	+0·69	—4·95	—2·68	—0·53	—0·22	—9·09
	Kolhapur	+0·65	—0·09	—0·14	—1·30	—1·28	—3·75	—2·75	—0·57	—0·87	—2·29	+1·96	+0·25	—10·18
	Belgaum	+2·23	—0·03	—0·49	—1·61	+1·05	—3·39	+0·59	—2·84	+1·86	—0·10	—0·11	+0·50	—2·35
	Gokak	+0·35	—0·01	—0·41	—1·55	—0·92	+2·92	+0·56	+6·46	+1·66	—3·01	+1·36	+0·80	+8·21
	Dharwar	+0·18	—0·03	—0·33	—1·07	—1·80	—0·90	+0·41	+4·19	+0·97	+1·72	—1·64	+1·86	+3·56
	Hubli	+1·07	—0·01	—0·32	—1·72	—1·14	—1·18	+0·98	+0·49	+1·67	—0·69	—0·20	+2·38	+1·33
	Nargund	—0·15	—0·09	—0·28	—1·60	—1·26	—2·20	—0·37	+0·08	—0·97	—2·83	+0·21	+1·66	—7·80
	Mundargi	—0·19	0	—0·13	—1·03	—0·80	—0·36	—1·33	+2·51	+2·62	+1·62	—1·38	+1·25	+2·78

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1906 from the average of past years*—contd.

PROVINCE.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
BOMBAY—*concld.*	Kalghatgi	+1·11	0	−0·34	−1·38	−0·01	−2·59	+2·03	+0·18	−1·20	+0·90	−0·15	+2·42	+0·97
	Bijapore	+0·07	−0·05	−0·26	−0·31	−0·24	+1·79	−0·21	+5·48	−2·69	−2·70	−0·47	+0·72	+0·63
	Honavar	+0·64	−0·01	−0·10	−0·60	−3·18	−10·75	+2·51	−4·61	−2·33	−3·38	−1·10	+4·32	−18·59
	Karwar	−0·03	−0·01	−0·04	−0·44	−3·03	−9·39	+3·57	−7·54	−3·19	−4·81	−1·17	+1·15	−24·93
	Goa	+0·12	0	−0·02	−0·33	−0·37	−4·32	+4·84	−6·70	−3·01	−1·95	−0·77	+0·26	−12·23
	Vengurla	−0·19	−0·02	−0·05	−0·28	−2·05	−11·47	+12·09	−2·74	−5·82	−2·53	−0·62	−0·15	−13·26
	Ratnagiri	−0·20	−0·02	−0·05	−0·15	−1·18	−6·71	+6·43	−2·78	−4·44	−3·20	−0·29	−0·16	−12·65
	Colaba (Obsy.)	−0·12	+0·13	−0·01	−0·05	−0·55	−7·65	−6·22	+6·01	−6·95	−1·76	−0·47	−0·05	−17·69
	Byculla (J. J. Hospital)	−0·14	−0·03	−0·01	−0·03	−0·39	−8·93	−6·21	+1·86	−10·44	−2·30	−0·19	−0·34	−26·25
	Thana	−0·17	0	−0·06	−0·01	−0·36	−7·10	+5·95	−3·56	−7·49	−1·53	−0·28	−0·04	−14·65
	Matheran	−0·08	+0·02	−0·01	−0·07	−0·63	−7·22	−7·02	−19·55	−9·01	−3·63	−0·86	−0·04	−48·10
	Surat	−0·03	+0·10	0	−0·01	−0·15	−0·31	−5·03	−1·87	−3·43	−1·45	−0·15	−0·03	−12·36
	Broach	−0·04	+0·37	−0·01	0	−0·12	+6·01	+0·78	+1·29	−3·98	−1·43	−0·16	−0·04	+2·67
	Kaira	+0·04	−0·06	−0·02	−0·05	−0·30	−0·52	+0·57	+0·93	−1·47	−0·02	−0·31	−0·05	−1·21
	Bariya	−0·05	−0·19	0	−0·03	−0·27	+2·69	−4·74	+1·34	+3·80	−0·89	−0·17	−0·11	+1·38
	Godhra	−0·04	−0·08	−0·01	−0·02	−0·40	+2·12	−2·81	+4·24	+4·68	−0·90	−0·15	−0·09	+6·54
	Dohad	−0·06	−0·12	−0·01	−0·03	−0·46	−1·10	+0·78	+4·12	+0·07	+0·08	−0·16	−0·14	+2·27
	Ahmedabad	−0·01	+0·24	−0·01	−0·03	−0·46	+6·19	+0·96	+1·10	−1·54	−0·36	−0·19	−0·05	+5·64
	Idar	−0·04	+1·02	−0·03	−0·02	−0·57	+0·55	+5·42	+1·94	+1·78	−0·26	−0·22	−0·07	+9·50
	Deesa	−0·14	+1·18	−0·03	−0·05	−0·19	−0·44	−3·76	−0·75	+4·38	−0·29	−0·14	−0·01	−0·39
	Wadhwan	−0·05	+0·18	−0·04	−0·02	−0·20	+2·32	−3·31	−0·71	−2·59	−0·55	−0·42	−0·05	−5·44
	Palanpore	−0·10	+1·45	−0·06	−0·67	−0·56	+0·02	+1·69	−3·11	+2·84	+0·10	−0·10	+0·13	+2·23
	Rajkot	+0·08	+0·52	−0·01	−0·01	−0·31	−3·38	−0·30	+1·84	+0·01	+0·56	−0·33	−0·06	−1·39
	Songad	−0·03	+0·07	−0·05	−0·02	−0·21	+4·06	−1·81	+1·12	−3·25	−1·20	−0·21	−0·03	−1·56
	Jetalsar	−0·05	+0·30	−0·04	−0·05	−0·20	+1·02	−3·05	+7·44	−3·45	+1·25	−0·49	−0·04	+2·65
HYDERABAD.	Aurangabad (Cantonment)	+0·42	−0·10	−0·07	−0·20	−0·75	+1·07	+3·98	−1·26	−3·54	−1·27	−0·60	+0·12	−2·20
	Parbhani	−0·06	−0·05	−0·22	−0·35	−0·52	+8·51	+0·09	−7·07	−4·14	−2·30	+0·30	−0·08	−5·90
	Nandair	−0·11	−0·23	−0·46	−0·52	−0·34	+1·78	+2·55	−3·58	−5·15	−2·19	−0·44	−0·28	−8·97
	Bheer	+0·09	−0·05	−0·20	−0·20	−0·59	+3·40	+0·46	−0·15	−5·92	−1·79	−0·89	−0·08	−5·93
	Indur	−0·02	−0·13	+0·37	−0·09	−0·03	+7·58	−0·85	−3·09	+0·95	−1·16	−0·05	+0·92	+4·00
	Karimnagar	+1·68	−0·21	+1·93	−0·54	−0·79	+8·05	−1·39	+1·38	−5·60	−2·81	−1·05	−0·28	+0·37
	Kandi	+4·98	−0·18	−0·47	−0·79	−0·13	+4·02	+0·31	−2·83	−3·44	+0·48	+0·63	+1·91	+4·49
	Shumsabad	+0·74	−0·17	−0·49	−0·65	−1·11	+2·85	+0·92	+0·54	−1·54	−1·30	−1·13	+1·58	−0·26
	Sundanali	+0·67	−0·35	−0·52	−0·49	−0·94	+0·85	−1·82	−0·79	−5·18	−0·14	−0·67	+1·80	−7·58
	Dharasoo	+1·49	−0·05	−0·29	−0·42	−1·05	+5·27	+5·10	+3·73	−7·64	−1·81	−0·49	+0·09	+3·93
	Bidar	+2·74	−0·18	−0·42	−0·98	−0·53	+3·94	−0·62	−1·59	−4·21	−1·63	−0·09	+3·02	−0·55
	Gulbarga	+1·03	−0·20	−0·29	−0·54	−0·40	+4·23	+1·09	+5·38	−2·96	+1·72	+1·31	+2·56	+12·91
	Bolaram	+2·07	−0·19	−0·54	−0·57	−1·05	+4·58	−0·96	−2·13	−1·56	−0·51	−0·94	+1·73	−0·07
	Hyderabad (Residency)	+3·70	−0·09	−0·54	−0·43	−0·29	+3·42	+0·17	+1·60	−2·83	−0·11	−1·20	+1·48	+4·94

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1906 from the average of past years*—contd.

Provinces.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Hyderabad—*concld.*	Zanawada	+2·06	—0·53	—0·61	—0·62	—0·85	+2·44	—1·01	—2·84	—4·86	—0·23	+0·29	+2·29	—4·47
	Bhongir	+1·69	—0·08	—0·41	—0·09	—0·37	+4·22	—2·06	+2·32	—1·22	+0·88	—1·26	+5·12	+8·74
	Hanumkonda	+0·08	—0·22	+0·21	—0·34	—0·04	+5·43	—0·66	+4·33	—3·14	—1·74	—1·16	+1·96	+4·66
	Sirpur Tandur	—0·04	—0·28	+0·07	—0·32	—0·46	+0·98	—1·93	—1·56	—2·67	—2·06	+0·15	—0·53	—8·65
	Palmoor	+1·26	—0·10	—0·41	—0·28	—0·99	+3·36	+5·87	+2·51	+1·64	—1·08	—0·75	+1·22	+12·25
	Raichur	+1·49	—0·07	—0·30	—0·65	—0·01	+2·38	—1·48	+3·89	+2·29	—2·57	—0·22	+0·57	+5·27
Madras.	Bambha	+0·27	+0·35	—0·73	—0·79	—1·58	+0·89	+5·35	+0·57	—2·35	—3·29	—2·10	0	—3·11
	Gopalpur	—0·15	+1·40	+0·02	—0·72	—1·38	—0·80	+1·36	—1·36	+1·07	—1·86	—3·44	+1·20	—4·66
	Aska	+0·31	+2·15	—0·84	—1·27	+0·17	+0·40	+2·76	+2·01	—1·52	—1·88	—1·53	+0·34	+1·19
	Vizianagram	—0·12	+0·59	+0·64	—0·57	—2·43	+2·39	+0·94	+0·33	—1·47	—3·44	—1·69	—0·58	+1·59
	Bimlipatam	+0·03	+2·28	—0·05	—0·30	—1·44	+3·50	—1·75	+1·76	—2·11	—2·23	—2·61	—0·06	+2·97
	Rayaghadda	—0·10	+0·46	+0·46	—1·69	—2·33	—2·59	+7·96	—2·04	—0·98	—2·31	—1·02	+0·35	—3·83
	Nowrangapur	—0·11	+0·16	+0·88	—0·97	+0·91	+1·89	—0·28	—6·05	—3·00	—0·92	+1·20	+4·06	—2·73
	Gunipore	+0·01	+0·50	—0·19	—0·53	—1·33	+2·72	+5·07	—2·54	+0·49	—2·56	—0·91	+0·24	+0·67
	Jeypore	—0·06	—0·14	+0·44	—1·38	—1·00	+1·61	+1·01	—4·05	—0·03	—2·19	—1·11	+3·03	—3·87
	Koraput	—0·03	—0·02	+0·24	—1·03	—1·10	+1·01	+4·33	+2·20	—0·39	—1·47	—0·70	+3·69	+6·17
	Malkanagiri	—0·01	+0·08	—0·47	—0·53	—0·10	+16·59	—0·84	—4·92	—2·17	—1·77	—0·37	+1·35	+6·84
	Narsapatnam	—0·23	+0·77	—0·35	—0·51	—2·95	+7·45	+5·31	+2·09	+2·19	—4·84	—0·52	+0·01	+8·42
	Waltair	—0·20	+3·11	+1·03	—0·76	—2·42	+8·51	+0·47	+10·54	—2·35	—6·91	—3·96	—0·15	+6·91
	Cocanada	—0·17	+1·39	+0·36	—0·51	—1·78	+7·32	+0·62	+2·15	—4·04	—0·55	—3·51	+7·77	+9·05
	Rajahmundry	—0·14	+1·25	+0·79	—0·91	—2·31	+5·51	+2·10	+6·97	—1·78	—1·87	—1·89	+0·31	+8·03
	Ellore	—0·14	+0·92	—0·33	—0·58	—1·23	+6·11	+0·11	+9·19	—4·47	—5·00	—1·38	+0·82	+4·02
	Masulipatam	—0·17	—0·10	—0·18	—0·40	—1·34	+5·19	—2·34	+1·30	—2·29	—5·98	—1·94	+6·69	—1·56
	Guntur	+2·08	—0·19	—0·41	—0·60	—1·58	+7·52	—0·05	+2·10	—2·74	—2·91	—1·06	+5·49	+7·65
	Vinukonda	+0·14	—0·09	+0·62	—0·64	—1·50	+1·17	—0·48	+1·67	—0·88	—1·14	—2·91	+23·89	+20·05
	Ongole	+0·30	—0·09	+0·20	—0·43	—1·33	+0·83	+1·39	—0·89	—2·31	—4·37	—5·70	+6·62	—5·76
	Nellore	+6·49	—0·09	+0·71	—0·26	—0·81	—0·57	—0·71	+1·28	—1·32	—4·69	—7·24	+11·39	+4·18
	Udayagiri	+2·92	—0·21	—0·07	+0·40	—1·50	—0·04	+1·97	+3·78	—0·47	—2·72	—5·35	+12·49	+11·20
	Tada	+9·21	—0·48	+0·64	—0·27	—1·59	—0·69	+2·41	—0·17	+0·55	—7·47	—6·34	+7·26	+3·06
	Kurnool	—0·05	—0·03	—0·43	—0·86	—1·29	+0·87	+1·81	—0·83	+0·86	—1·26	—0·82	+5·55	+3·52
	Nandyal	+0·97	—0·04	—0·16	—0·50	—1·45	+2·74	+2·18	—4·37	—0·49	—3·73	—0·74	+2·79	—2·80
	Bellary	+0·45	—0·03	—0·42	—0·83	—1·11	+3·34	—0·22	+1·81	—0·59	—0·89	—0·69	+1·03	+2·35
	Gooty	+0·81	—0·05	—0·08	—0·46	—1·60	—0·85	+0·95	—0·26	+0·73	—1·69	—1·08	+4·93	+1·35
	Adoni	+0·29	0	—0·26	—0·69	—0·54	+0·68	+0·10	—0·84	+3·55	+1·30	—0·74	+1·60	+4·45
	Dharmabharam	+0·80	—0·10	—0·16	—0·50	—1·15	+2·26	+0·67	+5·60	+2·04	—2·08	—1·21	+4·49	+10·66
	Cuddapah	+2·30	—0·04	—0·17	—0·42	—1·59	+3·93	+0·63	—0·26	+6·48	+0·12	—1·98	+1·96	+10·96
	Madanapalle	+3·45	+0·09	0	—0·92	—2·27	+2·03	+2·17	+4·27	+0·82	—1·57	—2·90	+1·64	+6·81
	Chittore	+4·88	+2·89	—0·03	—0·67	—2·68	+3·23	+1·85	+2·76	+0·27	—2·84	—2·88	+1·16	+7·94
	Vellore	+4·80	+2·32	—0·18	—0·71	—2·02	0	—0·14	+6·49	—1·74	—4·87	—2·55	+2·13	+3·53
	Chandragiri	+13·50	—0·22	—0·19	—0·58	—1·53	—0·20	+1·72	+5·84	—1·39	—4·09	—4·08	+4·48	+13·26

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1906 from the average of past years*—contd.

Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Madras—contd.	Arcot	+3·04	+1·98	−0·26	−0·68	−1·88	+1·49	+0·32	+4·03	−2·81	−2·82	−1·00	+6·07	+7·48
	Madras	+3·22	+0·04	+0·25	−0·65	−1·96	+0·34	+0·64	−0·20	+1·43	−6·78	−6·83	+11·18	+0·68
	Palmaner	+4·65	+1·39	−0·26	−0·55	−2·53	+2·71	+0·71	+4·64	−2·01	+3·63	−2·37	+2·17	+12·38
	Saidapet	+5·12	+0·28	−0·26	−0·55	−1·67	−1·21	+0·96	−1·17	+4·91	−7·78	−5·05	+10·65	+4·23
	Chingleput	+4·44	−0·21	+0·99	−0·44	−1·87	−1·35	+0·32	+2·36	+4·03	−6·09	−2·22	+13·99	+14·35
	Conjeeveram	+4·17	−0·12	+0·58	−0·70	−1·40	+0·05	+3·34	+2·93	−1·50	−4·60	−0·74	+4·32	+6·33
	Tindivanam	+1·07	−0·54	+0·38	−0·85	−1·51	−0·11	+1·11	−1·86	−1·68	−2·72	+7·53	+6·41	+7·23
	Cuddalore	+2·01	+0·24	−0·14	−0·91	−1·38	−0·11	+0·94	−0·72	−2·75	−3·58	+16·26	+11·29	+21·15
	Vridhachalam	+5·75	+1·02	−0·27	−0·80	−0·97	−0·02	+1·93	+5·19	−2·87	−0·16	+4·83	+2·47	+16·10
	Udayarpalaiyam	+3·60	−0·45	−0·06	−1·06	+0·47	+1·00	+3·19	+1·84	−4·04	+0·16	+3·62	+1·56	+14·83
	Salem	+0·71	+0·05	−0·65	−2·04	−1·04	+1·74	−2·24	+3·54	−4·01	+0·10	−0·55	+0·82	−3·57
	Atur	+1·71	+0·94	−0·70	−1·47	−1·27	+0·62	−0·60	+3·88	−1·57	−0·97	−0·03	+2·36	+3·10
	Shevaroy Hills	+1·02	+1·95	−0·68	−1·89	−4·14	+1·44	+1·13	+13·50	−4·93	−1·95	−2·09	+1·36	+4·72
	Kumbakonam	+2·09	−0·55	−0·20	−0·55	−1·69	+0·89	−1·17	+4·96	−3·45	−1·71	+9·33	+0·60	+8·35
	Tirupatur	+0·82	−0·31	−0·10	−1·01	−2·93	−0·72	−0·19	−0·08	−2·01	+1·97	−0·19	+4·05	−0·70
	Hosur	−0·14	+3·29	−0·43	−1·76	−3·48	−0·51	+3·19	+2·13	−2·61	+0·08	−3·10	+0·73	−2·61
	Tranquebar	+0·87	−0·46	+0·47	−0·99	−1·29	+0·51	−1·86	+3·04	−2·88	+7·98	+16·89	+6·89	+29·11
	Negapatam	+0·59	−0·60	−0·22	−1·02	−1·73	+0·90	+1·89	+3·36	−1·73	+1·81	+15·23	+2·56	+21·04
	Tanjore	+1·62	+1·75	+0·56	−0·86	−1·08	−1·04	+0·08	+2·66	−4·71	+1·65	+5·86	+3·13	+9·62
	Patukota	+0·50	−0·75	+0·13	−1·81	−2·09	+2·34	−0·77	+0·16	−0·97	−2·17	+5·46	+4·00	+4·03
	Trichinopoly	+0·64	+0·12	+2·65	−2·16	−2·65	+1·03	−1·13	+3·61	−4·81	+1·91	+0·43	+0·62	+0·26
	Karur	−0·06	−0·02	−0·80	−1·88	−0·80	+0·45	−0·27	+3·12	−2·27	+0·27	+5·79	+0·89	+4·42
	Coimbatore	−0·23	−0·22	+0·01	−1·86	−0·45	−1·54	+0·42	+2·72	+0·53	+0·34	+0·33	+2·90	+2·95
	Kollegal	−0·15	−0·12	−0·82	−1·82	−2·61	−0·82	+3·43	+10·46	−3·89	−1·24	−1·76	+1·80	+2·26
	Dindigul	−0·14	+0·01	+0·28	−1·72	−0·95	−1·19	+0·89	+5·38	+1·69	+3·61	+3·53	−1·12	+9·72
	Madura (Observatory)	−0·32	−0·47	−0·06	−1·98	−2·18	+1·91	−0·03	+2·20	+1·78	−4·57	+1·10	−0·12	−2·74
	Vattanum	−0·18	−0·93	+1·56	−2·76	+0·23	+1·38	−0·73	+4·96	+1·41	−0·06	+1·24	−1·73	+4·39
	Periyakulam	+1·82	+0·59	+2·42	−2·51	+5·48	−0·98	+0·12	+8·90	−1·46	−2·39	+1·73	+1·29	+14·45
	Tinnevelly	+0·15	−0·87	−1·28	−0·02	−1·32	−0·41	−0·21	+3·42	+0·56	+1·99	−4·10	+3·01	+0·92
	Tuticorin	−0·39	+0·81	−0·69	−1·87	−0·74	−0·21	−0·16	+0·56	−0·18	+0·25	−3·71	+4·66	−1·67
	Satur	+0·04	−0·53	−0·95	+0·52	−1·39	−0·57	−0·24	+0·67	−1·14	−2·01	−0·90	+1·83	−4·66
	Cochin	+1·45	−0·80	−2·08	−2·38	−3·98	−11·56	+11·80	+0·91	−5·37	−1·84	+0·90	+3·42	−9·53
	Palghat	+0·77	+0·59	−0·75	−1·24	−1·45	−10·43	+6·38	−0·96	−2·69	−2·27	−0·54	+3·87	−8·72
	Wellington	+5·10	+1·02	+1·58	−3·33	−0·57	−0·70	P	P	P	P	P	P	P
	Ootacamund	+3·42	+1·09	−0·31	−2·41	−2·99	−0·06	+2·53	+14·02	+0·16	−1·65	−0·73	+2·12	+15·19
	Manantoddy	+0·69	−0·25	−1·10	−1·99	+0·63	−10·95	+11·95	+1·08	+0·61	+1·07	−0·01	+0·55	+2·28
	Calicut	+0·45	−0·16	−0·79	−2·76	−4·01	−19·93	+14·00	−1·71	−2·26	+0·35	+1·23	−0·85	−16·44
	Tellicherry	+0·28	−0·15	−0·39	−3·68	−3·92	−23·07	+6·42	−6·59	−3·35	−3·42	−2·33	−0·81	−41·01
	Cannanore	+0·78	−0·22	−0·21	−2·60	−2·64	−18·54	+8·88	−2·59	−2·69	−1·90	−2·23	−0·45	−24·41
	Mangalore	−0·13	−0·07	−0·11	−2·06	−4·13	−9·76	+5·80	+1·20	−2·02	−4·15	−0·42	+0·45	−15·40

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1906 from the average of past years*—contd.

Province.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Mysore and Coorg.	Bangalore	+0·05	+0·71	−0·12	−1·10	−3·19	+0·69	+2·19	+4·56	+0·76	−0·33	−1·96	+0·76	+3·02
	Mysore	+0·93	−0·17	+0·06	−1·46	−0·13	−0·63	+0·09	+4·72	−2·56	+0·08	−1·20	+1·87	+1·60
	Shimoga	+0·88	−0·11	−0·34	−1·93	+0·60	−1·89	+0·34	+8·50	+0·17	+1·10	−0·85	+0·61	+7·08
	Mercara	+2·42	−0·09	−0·92	−0·99	−1·68	−9·71	+13·92	+1·11	+0·92	−1·39	−1·19	+1·00	+3·40
	Kolar	+0·36	−0·04	−0·50	−1·29	−2·51	−0·51	+0·94	+9·29	−1·89	+1·08	−2·83	+1·38	+3·48
	Tumkur	+1·02	−0·19	−0·33	−1·38	−3·77	+0·63	+0·22	+8·89	+1·08	+2·38	−0·03	+2·44	+10·96
	Chitaldroog	+1·06	−0·03	−0·25	−1·47	−2·06	+2·23	+0·87	+4·94	+0·77	+0·17	−2·30	+1·67	+5·60
	Chikmagalur	+1·35	−0·20	−0·63	−2·17	−3·13	+1·64	+2·19	+3·90	−1·79	+1·87	−1·55	+1·98	+3·46
	Hassan	−0·52	−0·09	−0·44	−1·78	−1·70	−2·85	−0·09	+8·20	+0·63	+3·79	−0·58	+2·53	+7·10
Ceylon.	Trincomalee	−3·47	−2·15	−1·19	+0·15	−0·87	−0·82	+5·70	+1·78	+1·75	+0·69	+10·70	−3·89	+8·38
	Colombo	+3·05	−1·04	−0·33	−4·71	−5·14	−4·69	−0·04	+2·05	−4·93	+1·44	+2·06	−4·44	−16·72
	Ratnapura	−1·44	−0·33	−2·16	−3·95	−7·90	−8·36	+0·35	−3·94	−11·53	+20·25	+1·72	+2·19	−15·10
	Puttalam	−0·46	+1·28	−2·53	−0·73	−0·61	+0·29	−0·41	+1·60	−0·90	+4·30	+0·76	−1·32	+1·27
	Anuradhapur	+2·95	−0·95	−1·88	−1·75	−1·94	+1·58	−0·71	+3·87	−0·54	+5·93	−0·17	−2·10	+4·29
	Mannar	−0·90	−1·28	−1·50	−0·24	−0·33	−0·62	+0·13	+0·22	−1·04	−0·58	+0·72	−3·87	−3·29
	Jaffna	+2·21	−1·22	−0·02	−2·47	−1·95	+1·47	+5·87	+1·37	+0·91	+0·53	+24·56	−5·29	+25·07
	Batticoloa	−5·95	−3·90	−1·76	−1·20	−1·44	−0·87	+2·01	+2·58	−1·93	+1·66	+5·39	−5·60	−11·01
	Hambantota	−3·54	+2·10	−0·77	−0·10	+0·55	1·76	+0·04	−0·73	−2·30	+0·02	−3·77	−3·79	−10·53
	Galle	−0·59	−1·09	+1·20	−0·86	+4·36	−3·00	+0·40	+5·42	−6·28	+7·55	+8·92	−2·71	+13·32
	Kandy	+0·49	+0·59	−0·71	−3·07	−2·77	−3·87	+3·43	−1·57	−3·98	+4·13	+1·82	−2·95	−8·46
	Nuvara Eliya	−3·04	−0·89	−0·82	−2·56	−2·10	−6·76	+2·58	−0·13	−5·24	+17·82	+4·16	−3·55	−0·53
	Hakgala	−4·39	−0·65	+2·15	−4·37	−3·29	−1·14	+2·37	+3·74	−4·12	+17·97	+1·58	−8·30	+1·55
	Badulla	−6·04	−2·31	−0·94	−3·59	−1·51	−1·45	−0·25	+1·95	−0·68	−1·99	+0·21	−4·35	−30·95
Burma.	Akyab	+0·23	+0·11	−0·53	−1·27	−6·01	+1·73	−7·73	−12·51	+17·96	−6·42	−2·22	−0·39	−17·05
	Kyaukpyu	+0·19	+0·22	−0·25	+0·23	+14·82	−1·73	−1·70	−24·69	+7·11	−6·78	+0·80	−0·16	−12·14
	Sandoway	−0·08	+0·21	−0·10	−1·07	+9·87	−12·43	+19·69	−23·27	+4·93	−5·19	−2·60	−0·17	−10·21
	Rangoon	−0·11	−0·23	−0·16	−1·74	+4·01	−6·63	−5·92	−9·52	+3·14	+5·41	−0·97	−0·07	−12·79
	Bassein	−0·12	−0·20	−0·05	−1·37	−0·85	−6·31	−4·24	−10·75	−0·07	+0·08	−0·80	−0·10	−24·78
	Diamond Island	−0·23	−0·07	−0·05	−1·38	+11·82	−2·33	−6·42	−3·71	+11·92	−1·21	−4·28	−0·68	−1·62
	Henzada	−0·07	−0·18	−0·04	−0·87	−1·12	+0·96	−6·88	−13·57	+2·23	−1·06	+1·18	−0·06	−19·48
	Myanaung	−0·05	−0·02	−0·01	−0·96	−0·78	−2·56	+0·26	−3·32	+3·78	−0·54	−0·89	−0·11	−5·20
	Prome	+0·28	−0·01	−0·02	−0·44	+0·23	−1·50	−0·97	−4·12	+2·28	−2·88	−1·73	−0·07	−8·27
	Thayetmyo	+0·01	−0·04	−0·06	−0·81	−0·29	+3·03	−2·33	+0·91	+0·31	−1·50	−1·30	−0·01	−2·16
	Mandalay	−0·06	+0·34	−0·21	−0·93	−1·69	+0·37	+0·30	−0·76	+4·30	+1·87	−1·23	−0·28	+2·02
	Shwebo	−0·08	−0·07	−0·24	−0·72	−0·52	+4·40	−0·86	−2·77	−2·10	+0·94	+1·87	−0·15	−0·30
	Yeu	−0·06	+0·13	−0·37	−0·44	−0·06	+7·42	−2·78	−3·56	+5·29	−0·74	+1·31	−0·24	+5·90
	Minbu	−0·04	+0·05	−0·02	−0·45	−0·29	+6·08	−2·14	−1·25	+5·11	−2·17	−0·26	−0·20	+4·42
	Pyinmana	−0·06	−0·06	−0·03	−1·76	−1·81	+1·20	+0·50	−0·96	−3·91	−0·62	−1·63	−0·13	−9·27
	Pagan	−0·03	+0·09	−0·13	−0·03	+1·06	+1·36	−0·27	+0·68	−2·26	+0·13	−0·78	−0·17	−0·35
	Kyaukse	−0·19	+0·01	−0·12	−1·10	+0·06	+1·11	−0·79	−0·92	−0·95	+3·74	+1·63	−0·27	+3·21

TABLE XXVII.—*Departure of the monthly and total rainfall (in inches) in 1906 from the average of past years*—concld.

PROVINCE.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
BURMA—concld.	Shamo	−0·50	+1·94	−0·52	−0·58	−4·29	+14·04	+1·03	−4·11	−1·19	+0·47	−0·58	−1·44	+5·27
	Kindat	+0·01	+0·14	−0·97	−0·21	−3·33	+3·16	+0·55	−7·49	−2·84	+4·21	−1·43	−0·35	−8·68
	Magwe	0	−0·02	−0·02	−0·82	−0·56	+3·46	−2·41	−1·96	+6·65	−2·97	−0·43	−0·32	+1·30
	Yamethin	−0·05	−0·22	−0·14	−2·04	−1·72	+2·30	−1·39	−3·13	−0·66	−1·23	+0·08	−0·35	−8·56
	Fort Sagaing	−0·03	−0·04	−0·17	−0·97	−1·90	+1·89	−1·98	+0·37	+1·09	+3·97	+0·35	−0·29	+2·29
	Mingin	+0·03	+1·03	−0·52	−1·34	−0·12	+8·88	+0·56	−5·26	+3·06	+0·93	−0·90	−0·20	+6·20
	Toungoo	+0·05	−0·12	−0·08	−1·78	−0·25	−3·41	−4·61	−6·71	−0·64	+2·80	+3·65	−0·13	−11·23
	Shwegyin	−0·12	−0·34	−0·28	−2·38	+0·06	−12·12	+12·40	−12·96	−1·01	−3·18	+0·26	−0·07	−19·74
	Moulmein	−0·17	−0·13	−0·23	−1·65	+1·00	−7·77	+11·19	−15·49	+8·78	−0·71	+3·61	−0·03	−1·60
	Tavoy	+0·27	−0·54	−0·93	−3·20	+4·23	+5·44	−4·92	−8·99	−3·91	−2·57	+2·27	−0·10	−12·95
	Mergui	+1·09	−1·69	−1·97	−5·14	+7·55	−1·74	+4·52	−2·04	+2·59	−5·11	+1·31	−0·42	−1·05
	Myingyan	−0·04	+0·02	−0·08	−0·2	+2·18	+0·69	−0·90	−2·24	+0·15	+0·53	−1·06	−0·19	−1·16
	Monywa	0	0	−0·23	−0·59	+1·12	+1·68	−2·27	−2·20	+4·96	−0·35	−0·89	−0·16	+0·57
BAY IS. ISLANDS.	Port Blair	+0·54	−0·96	−0·34	−2·94	+5·17	+10·92	−5·71	−2·18	−12·39	−1·69	−3·46	−2·43	−15·47
	Cocos Island	−0·31	−0·11	0	?	?	?	?	?	?	?	?	?	?
KASHMIR.	Leh	−0·16	−0·28	−0·11	−0·05	−0·22	+0·07	−0·47	−0·46	+0·67	−0·19	−0·03	−0·07	−1·30
	Srinagar	−1·08	+1·06	+1·32	−0·63	+0·09	−0·07	−1·91	+0·63	+1·67	−0·93	−0·41	−0·49	−0·75
	Skardu	−1·26	+0·05	−0·70	−1·95	+2·76	−0·27	−0·17	−0·42	+1·52	−0·08	−0·09	−0·72	−1·28
	Gilgit	−0·15	0	−0·24	−0·22	+2·55	−0·03	−0·69	+0·03	−0·07	−0·16	−0·04	−0·08	+0·90
NEPAL	Katmandu	−0·61	+1·46	−0·76	−1·54	−1·99	−2·26	−1·11	−0·46	−2·99	−0·26	−0·18	−0·16	−10·86
EXTRA INDIA.	Meshed	+0·74	−0·14	+1·16	+1·00	+2·27	+0·11	−0·02	+0·12	−0·07	−0·59	−0·40	+1·71	+5·89
	Teheran	?	?	?	+0·65	+0·43	+0·57	?	?	?	?	+0·66	+0·98	?
	Ispahan	+1·45	+0·85	−0·49	+0·76	+0·98	0	−0·05	0	0	−0·11	+0·65	−0·07	+3·97
	Bushire	+0·54	−0·50	−0·88	+0·08	+0·02	0	0	+0·19	0	−0·12	+0·59	−3·14	−3·22
	Jask	+0·62	+0·81	−0·61	−0·03	0	−0·03	−0·22	0	0	−0·06	−0·52	+0·19	+0·35
	Muscat	−0·86	+0·45	+0·45	−0·03	0	−0·08	−0·04	+0·03	0	−0·02	−0·65	+1·03	+0·28
	Baghdad	−0·39	−1·76	−1·19	−0·33	−0·19	−0·01	0	−0·09	0	−0·04	+0·69	−1·01	−4·32
	Aden	−0·27	+0·85	−0·74	−0·25	−0·17	−0·04	−0·04	−0·11	−0·12	−0·01	−0·13	−0·01	−1·04
	Perim	−0·13	+0·91	−0·35	−0·01	−0·37	0	−0·14	−0·42	−0·01	−0·05	−0·05	−0·07	−0·69
	Kabul	−0·87	+3·52	−2·70	−0·28	+0·41	0	−0·11	+0·81	0	+0·15	−0·43	+0·38	+0·88
	Kashgar	−0·28	+0·41	−0·16	−0·20	−0·49	−0·15	+0·08	−0·46	−0·29	−0·03	−0·02	−0·10	−1·69
	Amini Diyi	−0·18	0	0	−2·58	−3·49	+7·19	+7·20	+7·20	−5·54	−0·38	−0·92	+1·47	+9·97
	Minicoy	−1·39	−0·35	−0·02	−2·34	+1·98	+9·70	+7·07	+3·77	−4·95	+2·47	+0·05	−2·15	+13·84
	Zanzibar	+3·45	+2·66	+4·36	+10·26	+5·01	+4·19	−2·08	−1·14	−0·86	+1·74	−0·56	+3·66	+35·69
	Port Victoria (Seychelles)	+2·05	−3·49	−0·22	+9·35	+0·71	−1·30	+0·15	−2·03	−4·04	−0·92	−4·02	−1·60	−5·36
	Mauritius	−3·68	−1·91	+2·92	−4·99	−0·04	−0·08	+3·40	−0·48	+0·40	+0·49	−1·24	−0·69	−5·31

TABLE XXVIII.—*Geographical summary of rainfall in 1906.*

METEOROLOGICAL DIVISION.	Area square miles.	Number of stations.	Normal rainfall.	Actual rainfall.	Mean excess or defect.	Total excess square miles × 1 inch.	Total defect square miles × 1 inch.
			Inches.	Inches.	Inches.		
I. Punjab Plains	120,000	29	21·23	23·66	+ 2·33	285,600	...
II. United Provinces of Agra and Oudh	83,500	44	38·18	39·09	+ 0·91	75,985	...
IIIa. Rajputana, East	67,000	29	25·98	23·23	— 2·75	...	184,250
IIIb. „ West	58,000	10	11·71	11·09	— 0·62	...	35,960
IV. Central India States	91,000	24	43·40	45·01	+ 1·61	146,510	...
V. Bihar	30,000	15	45·58	45·79	+ 0·21	6,300	...
VI. Western Bengal	38,000	13	52·85	51·45	— 1·40	...	53,200
VII. Lower „	54,000	28	66·16	64·90	— 1·26	...	68,040
VIII. Assam and Cachar	61,000	17	95·09	106·92	+11·83	721,630	...
IX. Orissa and Northern Circars	27,000	32	51·87	51·48	— 0·39	...	10,530
X. Central Provinces, South	61,000	19	52·47	55·03	+ 2·56	156,160	...
XI. Berar and Khandesh	43,000	12	34·92	37·87	+ 2·95	126,850	...
XII. Gujarat	54,500	13	33·02	33·67	+ 0·65	35 425	...
XIII. Sind and Cutch	68,000	10	8·26	9·01	+ 0·75	51,000	...
XIV. North Deccan	48,000	13	30·78	28·73	— 2·05	...	98,400
XV. Konkan and Ghats	16,000	11	139·17	114·65	—24·52	...	392,320
XVI. Malabar and Ghats	18,000	8	114·93	101·20	—13·73	...	247,140
XVII. Hyderabad	74,000	15	33·54	34·50	+ 0·96	71,040	...
XVIII. Mysore and Bellary	58,000	18	29·15	33·55	+ 4·40	255,200	...
XIX. Carnatic	72,000	36	36·84	43·97	+ 7·13	513,360	...
XX. Arakan	11,000	6	154·03	148·39	— 5·64	...	62,040
XXI. Pegu	32,500	7	72·55	60·46	—12·09	...	392,925
XXII. Tenasserim	10,500	4	173·33	164·50	— 8·83	...	92,715
XXIII. Upper Burma	?	13	39·50	39·50	0	...	...

On the mean of the whole area represented in the above table there was an excess of 0·68 inch or, excluding Burma, of 1·19 inches.

TABLE XXIX.—*Geographical summary of the distribution of rainfall in 1906 according to seasons.*

METEOROLOGICAL DIVISION.	JANUARY AND FEBRUARY.			MARCH TO MAY.			JUNE TO OCTOBER.			NOVEMBER AND DECEMBER.		
	Normal over division.	Actual over division.	Difference.	Normal over division.	Actual over division.	Difference.	Normal over division.	Actual over division.	Difference.	Normal over division.	Actual over division.	Differe nce.
	"	"	"	"	"	"	"	"	"	"	"	"
North-West Himalayas	6·03	8·91	+2·88	7·11	5·47	−1·64	42·53	47·39	+4·86	1·66	0·85	−0·81
Punjab Plains	2·21	3·70	+1·49	2·42	1·92	−0·50	15·92	17·18	+1·26	0·73	0·87	+0·14
United Provinces of Agra and Oudh	1·52	2·94	+1·42	1·38	1·00	−0·38	35·81	35·85	+0·04	0·45	0·16	−0·29
Rajputana	0·48	1·14	+0·66	0·77	0·35	−0·42	20·69	18·50	−2·19	0·38	0·13	−0·25
Central India States	1·00	1·10	+0·10	0·76	0·63	−0·13	40·97	43·28	+2·31	0·66	0	−0·66
Bihar	1·26	2·77	+1·51	2·50	1·55	−0·95	41·12	40·89	−0·23	0·32	0	−0·32
Western Bengal and Chota Nagpur	1·50	6·53	+5·03	3·63	2·66	−0·97	47·36	42·61	−4·75	0·60	0·47	−0·13
Lower Bengal	1·39	4·62	+3·23	10·55	8·21	−2·34	53·08	51·24	−1·84	0·71	0·71	0
Eastern Himalayas	1·64	2·37	+0·73	18·03	11·47	−6·56	103·92	113·76	+9·84	0·55	0·17	−0·38
Assam and Eastern Bengal	1·83	2·31	+0·48	22·64	23·33	+0·69	69·44	79·85	+10·41	1·19	1·43	+0·24
Orissa and Northern Circars	0·74	3·43	+2·69	4·81	3·16	−1·65	44·11	43·17	−0·94	2·18	1·98	−0·20
Central Provinces, South	0·93	1·90	+0·97	1·85	2·19	+0·34	48·85	50·20	+1·35	0·83	0·74	−0·09
Berar and Khandesh	0·53	0·43	−0·10	1·09	0·28	−0·81	32·34	36·32	+3·98	0·99	0·86	−0·13
Gujarat	0·18	0·50	+0·32	0·37	0	−0·37	31·95	33·08	+1·13	0·30	0·02	−0·28
Sind and Cutch	0·49	1·85	+1·36	0·45	0·49	+0·04	7·89	7·59	−0·30	0·21	0	−0·21
North Deccan	0·18	0·64	+0·46	3·50	1·41	−2·09	25·65	24·33	−1·32	1·45	2·36	+0·91
Konkan and Ghats	0·22	0·22	0	1·71	0·15	−1·56	131·63	108·60	−23·03	0·90	0·78	−0·12
Malabar and Ghats	0·52	1·22	+0·70	11·34	5·69	−5·65	99·16	90·07	−9·09	3·91	4·24	+0·33
Hyderabad	0·26	1·43	+1·17	1·87	0·66	−1·21	29·71	29·85	+0·14	1·30	2·22	+0·92
Ceded Districts and Mysore	0·24	1·16	+0·92	4·80	1·51	−3·29	21·69	27·63	+6·03	2·52	3·27	+0·75
Carnatic	0·92	3·35	+2·63	4·07	1·82	−2·25	21·12	22·17	+1·05	10·66	16·42	+5·76
Nilgiris	0·78	5·24	+4·51	10·39	4·68	−5·71	29·85	44·89	+15·90	5·65	7·04	+1·39
Arakan	0·77	1·28	+0·51	14·96	14·95	−0·01	135·45	129·86	−5·59	2·87	2·31	−0·56
Pegu	0·20	0·06	−0·14	8·95	9·32	+0·37	66·27	56·07	−10·20	2·60	1·79	−0·81
Tenasserim	0·98	0·56	−0·42	22·36	21·63	−0·73	147·69	138·30	−9·39	2·31	4·02	+1·71
Upper Burma	0·21	0·36	+0·15	6·18	4·33	−1·85	30·29	32·65	+2·36	1·48	0·97	−0·51
Bay Islands	1·15	0·72	−0·43	19·84	21·90	+2·06	78·75	67·70	−11·05	14·08	8·19	−5·89

TABLE XXX.—*Average over the 57 meteorological divisions of the actual and normal rainfall for the four seasons of the year 1906 and for the whole year.*

Province.	Division.	JANUARY AND FEBRUARY.			MARCH TO MAY.			JUNE TO OCTOBER.			NOVEMBER AND DECEMBER.			WHOLE YEAR.		
		Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.
		Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
BURMA	1. Tenasserim	0·62	0·63	−0·01	22·04	27·86	−5·82	141·91	165·06	−23·15	4·37	2·16	+2·21	16·94	185·71	−26·77
	2. Lower Burma Deltaic	0·02	0·22	−0·20	8·75	13·90	−5·15	77·30	88·83	−11·53	1·54	1·77	−0·23	87·61	104·72	−17·11
	3. Central do.	0·01	0·07	−0·06	5·87	7·73	−1·86	46·12	46·83	−0·71	0·79	1·26	−0·47	52·79	55·89	−3·10
	4. Upper do.	0·50	0·30	+0·20	3·99	7·36	−3·37	34·46	32·60	+1·86	1·00	1·61	−0·61	39·95	41·87	−1·92
	5. Arakan	0·68	0·19	+0·49	13·87	14·17	−0·30	151·18	155·71	−4·53	1·11	1·93	−0·82	166·84	172·00	−5·16
BENGAL AND ASSAM	6. Eastern Bengal	2·44	1·42	+1·02	14·83	16·97	−2·14	80·41	69·57	+10·84	1·44	1·27	+0·17	99·12	89·23	+9·89
	7. Assam Surma	2·61	2·28	+0·33	41·23	38·22	+3·06	89·75	88·34	+1·41	2·69	1·61	+1·08	136·33	130·45	+5·88
	8. Do. Hills	5·02	2·01	+3·01	22·25	27·26	−5·01	112·74	106·42	+6·32	2·43	1·60	+0·83	142·44	137·29	+5·15
	9. Do. Brahmaputra	2·61	2·19	+0·42	22·95	23·78	−0·83	61·26	62·94	−1·68	0·57	0·93	−0·36	87·39	89·84	−2·45
	10. Deltaic Bengal	6·28	1·42	+4·86	7·09	9·88	−2·79	44·15	48·89	−4·74	1·00	0·91	+0·09	58·52	61·10	−2·58
	11. Central do.	5·02	1·21	+3·81	4·97	6·76	−1·79	44·45	52·22	−7·77	0·45	0·52	−0·07	54·89	60·71	−5·82
	12. North do.	1·93	1·02	+0·91	11·50	16·58	−5·08	93·12	82·44	+10·68	0·35	0·39	+0·05	106·90	100·34	+6·56
	13. Bengal Hills	2·94	1·69	+1·25	11·89	14·82	−2·93	97·31	93·18	+4·13	0·10	0·52	−0·43	112·24	110·21	+2·03
	14. Orissa	5·11	1·02	+4·09	4·07	5·96	−1·89	43·23	49·03	−5·80	0·65	1·63	−0·98	53·06	57·64	−4·58
	15. Chota Nagpur	7·17	1·27	+5·90	2·57	3·93	−1·36	40·38	47·70	−7·32	0·36	0·55	−0·19	50·48	53·45	−2·97
	16. South Bihar	3·20	1·42	+1·78	1·43	2·03	−0·60	35·30	41·35	−6·05	0	0·38	−0·38	39·93	45·18	−5·25
	17. North do.	2·45	1·12	+1·33	2·64	4·19	−1·55	51·46	47·61	+3·85	0·02	0·20	−0·18	56·57	53·14	+3·43
UNITED PROVINCES	18. United Provinces, East.	1·64	1·20	+0·44	0·87	0·87	0	30·40	37·46	−7·06	0	0·39	−0·39	32·91	39·92	−7·01
	19. South Oudh	2·16	1·15	+1·01	0·98	0·89	+0·09	32·10	35·19	−3·09	0	0·46	−0·46	35·24	37·69	−2·45
	20. North do.	3·41	1·31	+2·10	0·74	1·53	−0·79	38·51	39·12	−0·61	0	0·43	−0·43	42·66	42·39	+0·27
	21. United Provinces, Central.	1·47	0·99	+0·48	0·51	0·71	−0·20	34·29	32·60	+1·69	0·01	0·49	−0·48	36·28	34·79	+1·49
	22. United Provinces, West.	2·13	1·14	+0·99	1·17	0·93	+0·24	29·33	23·88	+5·45	0·31	0·41	−0·10	32·94	26·36	+6·58
	23. United Provinces, East Submontane.	2·72	1·22	+1·50	0·73	1·73	−1·00	40·24	42·24	−2·00	0	0·25	−0·25	43·69	45·44	−1·75
	24. United Provinces, West Submontane.	4·85	2·64	+2·21	1·36	1·86	−0·50	44·95	42·41	+2·54	0·41	0·72	−0·31	51·57	47·63	+3·94
	25. United Provinces, Hills.	7·73	4·81	+2·92	3·11	4·53	−1·42	51·09	52·85	−1·76	0·52	1·06	−0·54	62·45	63·25	−0·80
PUNJAB	26. South-East Punjab	2·32	1·33	+0·99	1·29	1·11	+0·18	21·57	19·45	+2·12	0·24	0·48	−0·24	25·42	22·37	+3·05
	27. South do.	2·62	1·46	+1·16	1·38	1·11	+0·27	11·37	13·38	−2·01	0·26	0·42	−0·16	15·63	16·37	−0·74
	28. Central do.	4·36	2·24	+2·12	1·53	1·98	−0·45	14·56	14·09	+0·47	0·65	0·60	+0·05	21·10	18·91	+2·19
	29. Punjab, Submontane.	5·43	3·48	+1·95	3·06	2·68	+0·38	28·50	22·95	+5·55	1·31	0·91	+0·40	38·30	30·02	+8·28
	30. Do. Hills	9·56	6·93	+2·63	5·66	6·63	−0·97	62·86	44·00	+18·86	1·03	1·89	−0·86	79·11	59·45	+19·66
	31. West Punjab	2·95	1·09	+1·86	1·17	1·29	−0·12	6·89	6·19	+0·70	0·39	0·32	+0·07	11·40	8·89	+2·51

TABLE XXX.—*Average over the 57 meteorological divisions of the actual and normal rainfall for the four seasons of the year 1906 and for the whole year*—concld.

Province.	Division.	JANUARY AND FEBRUARY.			MARCH TO MAY.			JUNE TO OCTOBER.			NOVEMBER AND DECEMBER.			WHOLE YEAR.		
		Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.
		Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
NORTH-WEST FRONTIER PROVINCE.	32. North-West Frontier Province.	5·75	2·85	+2·90	3·62	4·43	−0·81	11·01	9·67	+1·34	1·72	1·05	+0·67	22·10	18·00	+4·10
BOMBAY AND MALABAR COAST DISTRICTS (MADRAS).	33. Malabar	1·16	0·40	+0·76	4·70	10·55	−5·85	98·33	112·58	−14·25	5·19	5·19	0	109·38	128·72	−19·34
	33-A. Travancore	1·32			11·01			63·17			13·93			89·43		
	34. Madras, South Central	1·54	0·63	+0·91	2·46	6·14	−3·68	22·39	18·34	+4·05	6·00	5·39	+0·61	32·39	30·50	+1·89
	35. Coorg	1·36			5·21			85·81			3·04			95·42		
	36. Mysore	0·62	0·11	+0·51	1·98	5·19	−3·21	32·75	26·15	+6·60	2·86	3·15	−0·29	38·21	34·60	+3·61
	37. Konkan	0·39	0·18	+0·21	0·11	1·98	−1·87	92·28	110·05	−17·77	0·98	0·94	+0·04	93·76	113·15	−19·39
	38. Bombay Deccan	0·57	0·17	+0·40	1·09	3·09	−2·00	26·51	31·05	−4·51	2·37	1·34	+1·03	30·57	35·65	−5·08
	39. Hyderabad, North	1·31	0·24	+1·07	0·51	1·50	−0·99	30·64	32·76	−2·12	1·50	1·31	+0·19	33·96	35·81	−1·85
	40. Khandesh	0·20	0·25	+0·04	0·06	0·83	−0·77	27·31	29·22	−1·91	0·39	0·70	−0·31	28·05	31·00	−2·95
CENTRAL PROVINCES AND BERAR.	41. Berar	0·56	0·52	+0·04	0·20	0·98	−0·78	36·40	29·64	+6·76	1·23	0·87	+0·36	38·39	32·01	+6·38
	42. Central Provinces, West.	0·45	0·78	−0·33	1·15	1·01	+0·14	47·41	41·49	+5·92	0·66	0·80	−0·14	49·67	44·08	+5·59
	43. Central Provinces, Central.	1·47	1·01	+0·46	1·44	1·29	+0·15	49·94	48·10	+1·84	0·59	0·71	−0·12	53·44	51·11	+2·33
	44. Central Provinces, East.	4·53	0·86	+3·67	2·92	1·93	+0·99	44·94	48·83	−3·89	0·64	0·70	−0·06	53·03	52·32	+0·71
BOMBAY (NORTH).	45. Gujarat	0·23	0·15	+0·08	0·01	0·25	−0·24	37·18	40·76	−3·58	0	0·29	−0·29	37·42	41·45	−4·03
	46. Kathiawar and Cutch	0·71	0·15	+0·56	0	0·28	−0·28	26·86	26·69	+0·17	0·02	0·38	−0·36	27·59	27·50	+0·09
	47. Sind	2·07	0·53	+1·54	0·51	0·39	+0·12	3·83	5·51	−1·68	0	0·20	−0·20	6·41	6·63	−0·23
	48. Baluchistan Hills	4·30	2·88	+1·42	3·18	1·86	+1·27	1·85	2·17	−0·32	0·22	1·47	−1·25	9·50	8·38	+1·12
RAJPUTANA AND CENTRAL INDIA.	49. Central India, East.	0·68	0·88	−0·20	0·36	0·57	−0·21	42·97	36·73	+6·24	0	0·64	−0·64	44·01	38·82	+5·19
	50. Rajputana East, Central India, West.	0·99	0·65	+0·34	0·49	0·74	−0·25	21·71	22·89	−1·18	0·13	0·59	−0·46	23·32	24·87	−1·55
	51. West Rajputana	1·28	0·29	+0·99	0·28	0·44	−0·16	9·54	10·74	−1·20	0·07	0·35	−0·28	11·17	11·82	−0·65
MADRAS	52. East Coast, North	1·22	0·64	+0·58	1·38	3·67	−2·29	36·68	33·70	+2·98	3·62	3·50	+0·12	42·90	41·51	+1·39
	53. Hyderabad, South	1·56	0·26	+1·30	0·47	2·15	−1·68	28·12	25·99	+2·13	2·61	1·32	+1·29	32·76	29·72	+3·04
	54. Madras, Central	1·15	0·23	+0·92	0·57	2·51	−1·94	22·75	19·34	+3·41	4·54	2·70	+1·84	29·01	24·78	+4·23
	55. East Coast, Central	6·70	0·97	+5·73	0·84	1·99	−1·15	17·12	19·61	−2·49	16·90	11·90	+5·00	41·56	34·47	+7·09
	56. East Coast, South	4·81	1·29	+3·52	1·27	3·64	−2·37	23·07	22·86	+0·21	20·22	14·19	+6·03	49·37	41·98	+7·39
	57. Madras, South	1·13	1·64	−0·46	3·23	4·86	−1·63	14·72	2·29	+2·43	11·53	9·91	+1·62	30·66	28·70	+1·96

TABLE XXXI.—*Average over the 57 meteorological divisions of the actual and normal number of rainy days for the four seasons of the year 1906 and for the whole year.*

Province.	Division.	JANUARY AND FEBRUARY.			MARCH TO MAY.			JUNE TO OCTOBER.			NOVEMBER AND DECEMBER.			WHOLE YEAR.		
		Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.
BURMA	1. Tenasserim	1·5	1·1	+0·4	16·5	25·1	−8·6	105·3	114·4	−9·1	6·1	3·7	+2·4	129·4	144·3	−14·9
	2. Lower Burma Deltaic	0·1	0·3	−0·2	8·9	17·6	−8·7	96·5	103·1	−6·6	3·0	2·9	+0·1	108·5	123·9	−15·4
	3. Central do.	0	0·1	−0·1	5·4	11·3	−5·9	74·1	75·3	−1·2	1·6	2·0	−0·4	81·1	88·7	−7·6
	4. Upper do.	1·5	0·7	+0·8	7·6	11·2	−3·6	45·8	45·2	+0·6	1·6	2·9	−1·3	56·5	60·0	−3·5
	5. Arakan	1·6	0·3	+1·3	9·8	14·1	−4·3	98·2	105·0	−6·8	1·8	2·7	−0·9	111·4	122·1	−10·7
BENGAL AND ASSAM	6. Eastern Bengal	5·6	2·5	+3·1	17·9	19·1	−1·2	76·1	72·0	+4·1	1·6	1·5	+0·1	101·2	95·1	+6·1
	7. Assam Surma	7·9	4·3	+3·6	41·5	37·1	+4·4	87·7	87·2	+0·5	2·0	2·1	−0·1	139·1	130·7	+8·4
	8. Do. Hills	7·2	4·4	+2·8	28·3	30·3	−2·0	92·3	89·6	+2·7	3·0	3·1	−0·1	130·8	127·4	+3·4
	9. Do. Brahmaputra	7·2	5·8	+1·4	31·3	32·5	−1·2	68·9	69·1	−0·2	1·7	2·2	−0·5	109·1	109·6	−0·5
	10. Deltaic Bengal	8·5	2·3	+6·2	10·8	13·8	−3·0	61·6	61·9	−0·3	1·4	1·2	+0·2	82·3	79·2	+3·1
	11. Central do.	8·0	2·3	+5·7	9·6	10·0	−0·4	59·8	58·2	+1·6	0·6	0·8	−0·2	78·0	71·3	+6·7
	12. North do.	4·4	2·2	+2·2	14·9	18·5	−3·6	69·9	66·7	+3·2	0·4	0·7	−0·3	89·6	88·1	+1·5
	13. Bengal Hills	5·4	3·8	+1·6	20·0	25·8	−5·8	84·1	89·2	−5·1	0·4	1·4	−1·0	109·9	120·2	−10·3
	14. Orissa	7·3	1·8	+5·5	7·2	8·9	−1·7	57·1	58·3	−1·2	1·8	2·0	−0·2	73·4	71·0	+2·4
	15. Chota Nagpur	12·8	2·7	+10·1	6·6	7·0	−0·4	55·5	57·6	−2·1	0·7	0·9	−0·2	75·6	68·2	+7·4
	16. South Bihar	6·5	2·9	+3·6	2·8	3·4	−0·6	46·0	47·0	−1·0	0	0·6	−0·6	55·3	53·9	+1·4
	17. North do.	5·9	2·4	+3·5	4·5	6·2	−1·7	52·4	49·0	+3·4	0	0·5	−0·5	62·8	58·1	+4·7
UNITED PROVINCES	18. United Provinces, East.	5·2	2·6	+2·6	1·7	1·9	−0·2	38·6	42·7	−4·1	0	0·7	−0·7	45·5	47·9	−2·4
	19. South Oudh	5·4	2·4	+3·0	2·2	2·0	+0·2	39·5	38·6	+0·9	0	0·8	−0·8	47·1	43·8	+3·3
	20. North do.	6·2	2·8	+3·4	2·1	2·9	−0·8	41·4	39·9	+1·5	0	0·8	−0·8	49·7	46·4	+3·3
	21. United Provinces, Central.	3·6	2·2	+1·4	1·4	1·8	−0·4	38·2	36·8	+1·4	0	0·9	−0·9	43·2	41·7	+1·5
	22. United Provinces, West.	3·7	2·4	+1·3	2·5	2·6	−0·1	31·2	27·8	+3·4	0·5	1·0	−0·5	37·9	33·8	+4·1
	23. United Provinces, East Submontane.	6·1	2·5	+3·6	2·3	3·1	−0·8	44·0	43·0	+1·0	0	0·6	−0·6	52·4	49·2	+3·2
	24. United Provinces, West Submontane.	7·5	4·8	+2·7	3·5	4·1	−0·6	43·3	39·0	+4·3	0·7	1·4	−0·7	55·0	49·3	+5·7
	25. United Provinces, Hills.	10·2	7·9	+2·3	7·2	9·4	−2·2	58·7	55·6	+3·1	0·9	1·8	−0·9	77·0	74·7	+2·3
PUNJAB	26. South-East Punjab	4·6	3·0	+1·6	2·9	2·8	+0·1	25·9	22·2	+3·7	0·6	1·0	−0·4	34·0	29·0	+5·0
	27. South do.	3·9	3·3	+0·6	3·3	2·5	+0·8	18·7	16·2	+2·5	0·8	0·9	−0·1	26·7	22·9	+3·8
	28. Central do.	6·7	4·7	+2·0	4·6	4·5	+0·1	18·3	15·5	+2·8	1·3	1·1	+0·2	30·9	25·8	+5·1
	29. Punjab Submontane	9·4	5·9	+3·5	6·4	5·5	+0·9	32·4	24·0	+8·4	1·9	1·5	+0·4	50·1	36·9	+13·2
	30. Do. Hills	17·3	9·7	+7·6	11·0	11·7	−0·7	51·7	43·3	+8·4	2·0	2·7	−0·7	82·0	67·4	+14·6
	31. West Punjab	5·2	2·6	+2·6	3·2	3·0	+0·2	8·7	8·5	+0·2	0·7	0·7	0	17·8	14·8	+3·0

TABLE XXXI.—*Averages over the 57 meteorological divisions of the actual and normal number of rainy days for the four seasons of the year 1906 and for the whole year*—concld.

Province.	Division.	JANUARY AND FEBRUARY.			MARCH TO MAY.			JUNE TO OCTOBER.			NOVEMBER AND DECEMBER.			WHOLE YEAR.		
		Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.	Actual.	Normal.	Departure of actual from normal.
NORTH-WEST FRONTIER PROVINCE.	32. North-West Frontier Province.	10·8	5·4	+5·4	9·4	8·8	+0·6	17·1	13·8	+3·3	2·8	1·4	+1·4	40·1	29·4	+10·7
BOMBAY AND MALABAR COAST DISTRICTS (MADRAS).	33. Malabar	1·7	0·4	+1·3	7·6	12·6	−5·0	92·5	97·5	−5·0	7·2	7·0	+0·2	109·0	117·5	−8·5
	33-A. Travancore	2·2			16·8			78·4			17·3			114·7		
	34. Madras, South Central	2·4	0·9	+1·5	4·8	9·4	−4·6	36·0	28·2	+7·8	11·1	8·5	+2·6	54·3	47·0	+7·3
	35. Coorg	2·5			9·6			91·1			7·0			110·2		
	36. Mysore	1·3	0·2	+1·1	3·8	8·8	−5·0	51·7	39·6	+12·1	5·0	4·9	+0·1	61·8	53·5	+8·3
	37. Konkan	0·5	0·3	+0·2	0·3	2·7	−2·4	86·9	92·0	−5·1	1·3	1·6	−0·3	89·0	96·6	−7·6
	38. Bombay Deccan	1·0	0·4	+0·6	2·1	5·9	−3·8	42·5	45·2	−2·7	3·4	2·2	+1·2	49·0	53·7	−4·7
	39. Hydreabad, North	1·4	0·5	+0·9	0·9	3·6	−2·7	38·7	46·0	−7·3	2·6	2·2	−0·2	43·0	52·3	−9·3
	40. Khandesh	0·5	0·5	0	0·1	1·6	−1·5	40·8	42·1	−1·3	0·9	1·2	−0·3	42·3	45·4	−3·1
CENTRAL PROVINCES AND BERAR.	41. Berar	1·1	1·2	−0·1	0·5	2·2	−1·7	44·2	41·0	+3·2	2·7	1·3	+1·4	48·5	45·7	+2·8
	42. Central Provinces, West.	1·3	1·4	−0·1	3·1	2·2	+0·9	51·7	48·6	+3·1	1·0	1·3	−0·3	57·1	53·5	+3·6
	43. Central Provinces, Central.	3·2	1·9	+1·3	3·3	2·8	+0·5	56·0	53·1	+2·9	1·1	1·2	−0·1	63·6	59·0	+4·6
	44. Central Provinces, East.	7·3	1·8	+5·5	5·1	4·3	+0·8	54·8	53·6	+1·2	1·3	1·3	+0·1	68·5	60·9	+7·6
BOMBAY (NORTH).	45. Gujarat	0·7	0·3	+0·4	0	0·5	−0·5	47·5	44·2	+3·3	0	0·6	−0·6	48·2	45·6	+2·6
	46. Kathiawar and Cutch	1·9	0·3	+1·6	0	0·6	−0·6	33·9	29·4	+4·5	0·1	0·6	−0·5	35·9	30·9	+5·0
	47. Sind	4·4	1·5	+2·9	1·5	1·0	+0·5	5·7	6·2	−0·5	0	0·5	−0·5	11·6	9·2	+2·4
	48. Baluchistan Hills	8·6	6·7	+1·9	8·4	5·1	+3·3	3·4	3·9	−0·5	0·9	3·5	−2·6	21·3	19·2	+2·1
RAJPUTANA AND CENTRAL INDIA.	49. Central India, East.	2·2	1·9	+0·3	0·8	1·3	−0·5	44·3	42·1	+2·2	0	1·4	−1·4	47·3	46·7	+0·6
	50. Rajputana East, Central India, West.	2·6	1·6	+1·0	1·4	1·9	−0·5	27·1	28·1	−1·0	0·5	1·3	−0·8	31·6	32·9	−1·3
	51. West Rajputana	2·7	0·8	+1·9	0·8	1·1	−0·3	13·9	13·5	+0·4	0·3	0·7	−0·4	17·7	16·1	+1·6
MADRAS.	52. East Coast, North	2·1	0·7	+1·4	2·9	5·9	−3·0	46·7	45·5	+1·2	5·2	3·8	+1·4	56·9	55·9	+1·0
	53. Hyderabad, South	2·3	0·6	+1·7	1·4	4·3	−2·9	43·3	42·3	+1·0	4·6	2·5	+2·1	51·6	49·7	+1·9
	54. Madras, Central	1·7	0	+1·7	1·4	4·5	−3·1	37·9	31·1	+6·8	7·2	4·0	+3·2	48·2	39·6	+8·6
	55. East Coast, Central	3·2	1·2	+2·0	1·5	2·3	−0·8	31·7	27·8	+3·9	15·5	10·3	+5·2	51·9	41·6	+10·3
	56. East Coast, South	3·6	1·7	+1·9	2·5	4·8	−2·3	33·9	31·1	+2·8	18·4	14·3	+4·1	58·4	51·9	+6·5
	57. Madras, South	2·8	2·5	+0·3	5·6	7·6	−2·0	22·8	18·2	+4·1	14·2	15·4	−1·2	44·4	43·7	+0·7

I.—**The cold weather period.**—The rainfall of the period was abnormal both in its incidence and distribution. It was scanty and in marked defect in January throughout northwest and central India—the usual region of winter rains—and in excess over practically the whole of the remainder of the country. The excess was on the whole most pronounced in the Peninsula where under ordinary conditions but little rain is received in January. Opposite conditions obtained in February in which month the rainfall was exceptionally heavy in northern and central India and less than usual over the greater part of the Peninsula: the rainiest regions in this month by percentage comparison with the normal were West Rajputana, Sind, the east of the Central Provinces and Chota Nagpur:—

(*a*) The total precipitation of the period was more or less above the average throughout the country excepting Central India. The excess was largest in absolute amount in Chota Nagpur and Orissa and, relatively to the normal, in Hyderabad.

Area.	Rainfall of period, January and February.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	0·37	0·28	+0·09	+ 32
Assam	2·61	2·24	+0·37	+ 17
Bengal	3·92	1·27	+2·65	+209
Orissa	5·11	1·02	+4·09	+401
Bihar	2·83	1·27	+1·56	+123
Chota Nagpur	7·17	1·27	+5·90	+465
United Provinces	2·63	1·38	+1·25	+ 91
Punjab	3·91	2·08	+1·83	+ 88
Sind	2·07	0·53	+1·54	+291
Rajputana	1·14	0·47	+0·67	+143
Gujarat	0·47	0·15	+0·32	+213
Central India	0·68	0·88	—0·20	— 23
Central Provinces	2·15	0·88	+1·27	+144
Berar	0·56	0·52	+0·04	+ 8
Konkan	0·39	0·18	+0·21	+117
Bombay Deccan	0·43	0·21	+0·22	+105
Mysore	0·62	0·11	+0·51	+464
Hyderabad	1·44	0·25	+1·19	+476
Ganjam	1·22	0·64	+0·58	+ 91
Malabar	1·16	0·40	+0·76	+190
Remainder of Madras	3·08	0·95	+2·13	+224

(*b*) The precipitation was as excessive in Afghanistan, Baluchistan, Persia and at Aden as in northwest India: Baghdad apparently marked the westerly limit of this zone of abundant rainfall. The distribution was very irregular in Kashmir and perhaps also in the equatorial region as represented by Zanzibar and the Seychelles.

Station.	Rainfall of period, January and February.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Mauritius	8·62	15·06	—6·44	— 43
Seychelles	29·46	30·25	—0·79	— 3
Zanzibar	10·88	5·74	+5·14	+ 90
Aden	1·08	0·61	+0·47	+ 77
Perim	1·57	0·60	+0·97	+162
Baghdad	1·20	3·55	—2·35	— 66
Ispahan	2·72	0·43	+2·29	+533
Bushire	5·64	5·47	+0·17	+ 3
Meshed	1·81	1·44	+0·37	+ 26
Chaman	4·11	3·05	+1·06	+ 35
Quetta	4·60	4·24	+0·36	+ 8
Kabul	4·50	2·22	+2·28	+103
Gilgit	0·27	0·37	—0·10	— 27
Srinagar	7·58	6·29	+1·29	+ 21
Kashgar	0·48	0·39	+0·09	+ 23
Leh	0·23	0·66	—0·43	— 65

II.—**The hot weather period.**—Strongly marked cold weather conditions obtained throughout March in northern and central India. A remarkable feature of the meteorology of the month was the occurrence of untimely heavy rain in the Central Provinces, particularly in the eastern districts. The next two months were remarkably dry over nearly the whole of the country, the only exception being Assam. The rainfall was unusually scanty in Burma, Bengal, Mysore and Malabar, areas where in ordinary years hot weather storms are of frequent occurrence during April and May.

(*a*) The total rainfall of the period March to May was equal to or above the average in Assam, the Punjab, Sind and the Central Provinces; the excess was however small in actual amount except in the first named area where it was a trifle over an inch:—

Area.	Rainfall of period, March to May.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Assam	32·12	31·00	+1·12	+ 4
Punjab	2·01	2·10	—0·09	— 4
Sind	0·51	0·39	+0·12	+31
Central Provinces	1·84	1·41	+0·43	+30

(*b*) Over the remainder of the country including Burma the province of Bengal, the United Provinces.

Rajputana, Gujarat, Central India and the greater part of the Peninsula the rainfall of the period was below normal; the deficiency was most pronounced relatively to the normal in Gujarat and the Konkan which received only 5 per cent. of their normal supply: the deficiency was considerable also in Madras, Mysore and the Deccan:—

Area.	Rainfall of period, March to May.			
	Actual.	Normal.	Departure from normal	Percentage departure from normal.
	"	"	"	
Burma	10·90	14·20	−3·30	−23
Bengal	9·60	12·55	−2·95	−24
Orissa		5·96	−1·89	−32
Bihar	2·04	3·11	−1·07	−34
Chota Nagpur	2·57	3·93	−1·36	−35
United Provinces	0·91	1·22	−0·31	−25
Rajputana	0·39	0·59	−0·20	−34
Gujarat	0·01	0·27	−0·26	−96
Central India	0·36	0·57	−0·21	−37
Berar	0·20	0·98	−0·78	−80
Konkan	0·11	1·98	−1·87	−94
Bombay Deccan	0·58	1·96	−1·38	−70
Mysore	1·98	5·19	−3·21	−62
Hyderabad	0·49	1·83	−1·34	−73
Ganjam	1·38	3·67	−2·29	−62
Malabar	4·70	10·55	−5·85	−55
Remainder of Madras	1·67	3·83	−2·16	−56

(c) The precipitation of the period was very irregularly distributed in the regions beyond upper India, being on the whole in excess in Baluchistan, Persia and parts of Kashmir, and below the normal in Ladak, Eastern Turkistan, Afghanistan and Arabia. In the equatorial region as represented by the Seychelles and Zanzibar the rainfall of the period was much above normal; in the case of the former sation the excess was due to abundant fall inApril and in that of Zanzibar to heavy preciptation hroughout the period:—

Station.	Rainfall of period, March to May.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Mauritius	15·35	17·94	− 2·59	− 14
Seychelles	31·52	23·56	+ 7·96	+ 34
Zanzibar	48·07	28·92	+19·15	+ 66
Aden	0	1·44	— 1·44	—100
Perim	0·02	0·66	— 0·64	— 97
Baghdad	0·96	2·80	— 1·84	— 66
Ispahan	2·78	1·48	+ 1·30	+ 88
Bushire	0·62	1·53	— 0·91	— 59
Meshed	9·30	4·95	+ 4·35	+ 88
Chaman	2·52	1·79	+ 0·73	+ 41
Quetta	4·73	3·31	+ 1·42	+ 43
Kabul	4·89	7·68	— 2·79	— 36
Gilgit	4·08	2·31	+ 1·77	+ 77
Srinagar	9·90	8·43	+ 1·47	+ 17
Kashgar	0·35	1·20	— 0·85	— 71
Leh	0·37	0·60	— 0·23	— 38

III.—The south-west monsoon period.—The monsoon currents of 1906 as measured by their rain producing capacity although not so vigorous as usual were on the whole appreciably stronger than those of 1905 and 1904. The rains commenced somewhat later than usual, more especially on the west coast. Both currents advanced however with their usual rapidity into the interior and were established over nearly the whole of the country before the 23rd of June. Judged by the total amount of rainfall measured in June, the Bay current was slightly and the Arabian Sea current decidedly weaker than usual. In July the Arabian Sea current was stronger than usual but as in June was determined chiefly to the Peninsula; the Bay current was on the whole of the average strength, though its activity was exhibited more largely in the west rather than the east of its field. During August the total precipitation in the Indian region was almost identical in amount with the average. The local distribution was however by no means normal; thus while the rainfall was more abundant than usual in northeast India it was well below normal in Burma; similarly there was a defect in northwest and central India and an excess in the Peninsula. The diversion of the monsoon currents revealed by these peculiarities in the rainfall distribution was apparently associated chiefly with the abnormalities in the position of the monsoon trough of low pressure and only to a slight extent with cyclonic disturbances of which there were only two in the month and these were of no great intensity. In September both currents were of less strength than usual and the rainfall of the month was generally below normal except in Burma and in northwest and central India, areas characterized by a scanty fall during the previous month. Three depressions passed into northern India from the Bay and were mainly instrumental in diverting to an unusual extent the moist currents from the Peninsula

and northeast India to the central and northwestern parts of the country.

(*a*) The total precipitation of the period June to September in the Indian region was 1 per cent. below the normal; the deficiency occurred almost solely in the field of the Arabian Sea current.

Field of	Rainfall of period, June to September.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Arabian Sea current .	36·46	37·56	—1·10	—3
Bay of Bengal current .	49·73	49·94	—0·21	0

(*b*) The shortage in the region dominated by the Arabian Sea current was not universal but was restricted entirely to a narrow strip along the west coast and to the Bombay Deccan, Sind, Rajputana and Gujarat. The excess over the rest of the field was largest both absolutely and relatively to the normal in Berar which obtained 30 per cent. more than its normal supply: it was considerable also in Mysore and Madras excluding Malabar, in which areas it averaged 24 per cent.

Area.	Rainfall of period, June to September.				Rainfall of period, June to October.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"		"	"	"	
Punjab . .	15·60	14·06	+1·54	+11	15·65	14·29	+1·36	+10
Sind . . .	3·79	5·49	—1·70	—31	3·83	5·51	—1·68	—30
Rajputana . .	15·39	16·68	—1·09	—7	15·63	16·82	—1·19	—7
Gujarat . .	31·62	32·92	—1·30	—4	32·02	33·73	—1·71	—5
Central India .	42·83	35·75	+7·08	+20	42·97	36·73	+6·24	+17
Central Provinces	46·81	44·29	+2·52	+6	47·43	46·14	+1·29	+3
Berar . . .	36·16	27·88	+8·28	+30	36·40	29·64	+6·76	+23
Konkan . .	90·55	105·56	—15·01	—14	92·28	110·05	—17·77	—16
Bombay Deccan .	25·66	26·97	—1·31	—5	26·93	30·14	—3·21	—11
Mysore . .	25·56	20·65	+4·91	+24	32·75	26·15	+6·60	+25
Hyderabad . .	27·73	26·59	+1·14	+4	29·38	29·38	0	0
Malabar . .	91·31	102·82	—11·51	—11	98·33	112·58	—14·25	—13
Remainder of Madras.	14·34	11·66	+2·68	+23	20·01	18·49	+1·52	+8

(*c*) The distribution of rainfall in the region of the Bay current was very irregular, there being an excess in Bengal, Bihar, the United Provinces and Ganjam, and a defect in Burma, Assam, Orissa and Chota Nagpur. The departures from normal were insignificant except in the case of Chota Nagpur (—17 per cent.) and Orissa (—12 per cent):—

Area.	Rainfall of period, June to September.				Rainfall of period, June to October.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"		"	"	"	
Burma . .	83·22	91·01	—7·09	—8	90·19	97·81	—7·62	—8
Assam . . .	69·81	70·07	—0·26	0	75·51	75·64	—0·13	0
Bengal . .	59·45	58·67	+0·78	+1	65·53	63·28	+2·25	+4
Orissa . . .	38·22	43·44	—5·22	—12	43·23	49·03	—5·80	+12
Bihar . . .	42·06	41·89	+0·17	0	43·38	44·48	—1·10	—2
Chota Nagpur .	37·31	44·91	—7·60	—17	40·33	47·70	—7·32	—15
United Provinces	35·53	34·56	+0·97	+3	35·69	36·13	—0·44	—1
Ganjam . .	33·00	26·70	+6·30	+24	36·63	33·70	+2·93	—9

(*d*) Both the excess and defect were fairly persistent throughout the period.

Area.	Percentage departure from normal rainfall.			
	June.	July.	August.	September.
Assam	—14	—1	+37	—28
Orissa	—14	—5	—32	+5
Konkan	—22	+3	—22	—35
Central Provinces . . .	+26	+9	—14	+10
Berar	+79	+25	+63	—49
Ganjam	+104	+12	+29	—22

(*e*) The final withdrawal of the monsoon from upper India occurred on the 16th of September, which is the normal date.

(*f*) In the regions beyond upper India the precipitation of the period varied rather irregularly from the normal. In the Indian Ocean the rainfall was almost identical with the normal at Zanzibar, 45 per cent. in defect at the Seychelles and in large excess at Mauritius:—

STATION.	Rainfall of period, June to September.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Mauritius	11·15	7·93	+3·22	+41
Seychelles	9·06	16·39	−7·33	−45
Zanzibar	8·00	7·77	+0·23	+3
Aden	0·02	0·31	−0·29	−94
Perim	0·04	0·47	−0·43	−91
Baghdad	0	0·09	−0·09	−100
Ispahan	0	0·06	−0·06	−100
Bushire	0·19	0	+0·19	...
Meshed	0·48	0·27	+0·21	+78
*Chaman	0·	0·23	−0·17	−74
Quetta	0·31	1·92	−1·61	−84
Kabul	1·27	0·62	+0·65	+105
Gilgit	0·97	1·78	−0·81	−46
Srinagar	8·00	7·81	+0·19	+2
Kashgar	0·92	2·13	−1·21	−57
Leh	1·22	1·31	−0·09	−7

It may be noted that the excess at Zanzibar occurred solely in June, at Mauritius in July and September and at Kabul in August.

IV.—The retreating South-west monsoon period.

The distribution of rainfall in this period was very similar in its general character to that of the corresponding season of the previous year. The retreating monsoon current was feebler than usual in October and withdrew much before its normal date from the east of the United Provinces, Central India and the Central Provinces. The rainfall of October was scanty and below normal throughout the whole country with the exception of the interior of Burma, Bengal, Assam, Mysore and the south of Madras. The monsoon current continued below its normal intensity in November and was, as in October, determined chiefly to Burma and to Eastern Bengal and Assam. A large change occurred in December when the monsoon current strengthened materially and gave abundant rainfall throughout the Peninsula, in some parts ranging between three and ten times the normal quantity.

Weather was abnormally dry throughout the month in Burma and northern India and although rather more rain than the average fell locally in the Punjab and the North-West Frontier Province there were no indications of an early or severe winter.

(*a*) The total rainfall of the period October to December was more or less below the normal over the whole of the Peninsula excepting Mysore and the Carnatic; the percentage deficiency was most pronounced in the Konkan and the Central Provinces where the total fall of the period was barely half of the normal quantity.

AREA.	Rainfall of period, October to December.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Orissa	5·66	7·22	−1·56	−22
Central Provinces	1·25	2·59	−1·34	−52
Berar	1·47	2·63	−1·16	−44
Konkan	2·71	5·43	−2·72	−50
Bombay Deccan	2·65	4·19	−1·54	−37
Mysore	10·05	8·65	+1·40	+16
Hyderabad	3·71	4·11	−0·40	−10
Ganjam	7·30	10·50	−3·20	−30
Malabar	12·21	14·95	−2·74	−18
Remainder of Madras	17·50	15·64	+1·86	+12

(*b*) The total precipitation was rather irregularly distributed in northeast India, being considerably below normal in Bihar, about the average in Chota Nagpur and Assam, and 28 per cent. in excess in Bengal. In Burma the fall differed but little from the normal.

AREA.	Rainfall of period, October to December.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	8·03	8·54	−0·51	−6
Assam	7·33	6·84	+0·49	+7
Bengal	6·89	5·37	+1·52	+28
Bihar	1·34	2·89	−1·55	−54
Chota Nagpur	3·43	3·34	+0·09	+3

(*c*) Over Central India and the greater part of north-west India the total rainfall of the period was much below normal; the defect was most marked in the United Provinces and Central India which received only 13 and 9 per cent. of their respective normal amounts.

AREA.	RAINFALL OF PERIOD, OCTOBER TO DECEMBER. Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
United Provinces	0·26	2·02	—1·76	—87
Punjab	0·81	0·86	—0·05	—6
Sind	0·04	0·22	—0·18	—82
Rajputana	0·14	0·61	—0·47	—77
Gujarat	0·42	1·15	—0·73	—63
Central India	0·14	1·62	—1·48	—91

(*d*) Weather was on the whole drier than usual in Kashmir, Baluchistan and Persia. Conditions were variable in the equatorial region where Zanzibar received 56 per cent. more and the Seychelles 18 per cent. less than the average. The excess at Zanzibar was due almost entirely to heavy precipitation in December.

STATION.	RAINFALL OF PERIOD, OCTOBER TO DECEMBER. Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Mauritius	7·05	8·32	—1·27	—15
Seychelles	25·84	31·54	—5·70	—18
Zanzibar	25·99	16·68	+9·31	+56
Aden	0·12	0·61	—0·49	—80
Perim	0	0·19	—0·19	—100
Baghdad	2·47	2·60	—0·13	—5
Ispahan	2·05	1·67	+0·38	+23
Bushire	2·82	5·11	—2·29	—45
Meshed	2·60	1·63	+0·97	+60
Chaman	0·62	1·22	—0·60	—49
Quetta	0·52	1·21	—0·69	—57
Kabul	1·44	1·33	+0·11	+8
Gilgit	0	0·34	—0·34	—100
Srinagar	0·80	2·21	—1·41	—64
Kashgar	0·08	0·27	—0·19	—70
Leh	0·12	0·43	—0·3	—72

The year.—On the whole the year 1906 was somewhat drier than usual, the total precipitation in the plains of India being 71" or one per cent. in defect of the normal. The deficiency was not distributed over the whole year for the first three months as well as July and December were characterized by heavier precipitation than usual. By percentage comparison with the average the wettest month of the year was February with a rainfall 232 per cent. in excess of the normal, and the driest April when the total precipitation was 42 per cent. short of the normal.

The statement below which is based on the whole of the available rainfall information shows the seasonal distribution of rainfall in the plains of India :—

PERIOD.	RAINFALL OF INDIA INCLUDING BURMA. Actual.	Normal.	Departure from normal.	Percentage departure from normal.	RAINFALL OF INDIA EXCLUDING BURMA. Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"		"	"	"	
Cold weather	2·31	0·99	+1·32	+133	2·52	1·07	+1·45	+135
Hot weather	4·16	5·42	—1·26	—23	3·43	4·47	—1·04	—23
South-west monsoon	39·91	40·21	—0·30	—1	35·13	34·69	+0·44	+1
Retreating south-west monsoon.	4·70	5·17	—0·47	—9	4·34	4·80	—0·46	—10
Whole year	51·08	51·79	—0·71	—1	45·42	45·03	+0·39	+1

The figures in the above table are, it may be noted, the arithmetical means irrespective of the extent of area represented by each station of the rainfall data of about 2,000 rain-gauge stations.

The data are interesting as showing that the largest departures from the normal occurred during the comparatively dry season January to May and were almost compensatory.

With a few local exceptions the rainfall of the year was below the normal in northern India, and greater than the average in the Peninsula : the departures from normal were nowhere large. This distribution is almost the opposite of that prevailing in 1904 and 1905 in both of which years the rainfall surpassed the average in the region usually dominated by the Bay current and fell short of the normal in the field of the Arabian Sea current.

PROVINCE OR DIVISION.	ANNUAL RAINFALL. Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	103·23	114·04	—10·81	—9
Assam	111·86	110·15	+1·71	+2
Bengal	79·86	77·85	+2·01	+3
Orissa	53·06	57·64	—4·58	—8
Bihar	48·25	49·16	—0·91	—2
Chota Nagpur	50·48	53·45	—2·97	—6
United Provinces	39·33	39·17	+0·16	0
Punjab and North-West Frontier Province.	22·33	19·09	+3·24	+17
Sind	6·41	6·63	—0·22	—3

Province or division.	Annual rainfall. Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Rajputana	17·25	18·35	−1·10	−6
Gujarat	32·51	34·48	−1·97	−6
Central India	44·01	38·82	+5·19	+13
Central Provinces	52·05	49·17	+2·88	+6
Berar	38·29	32·01	+6·28	+20
Konkan	96·76	113·15	−19·39	−17
Bombay Deccan	29·31	33·33	−4·02	−12
Mysore	38·21	34·60	+3·61	+10
Hyderabad	33·36	32·77	+0·59	+2
Ganjam	42·90	41·51	+1·39	+3
Malabar	109·38	128·72	−19·34	−15
Remainder of Madras	36·60	32·09	+4·51	+14

The following gives for the past 16 years the departures of the mean annual rainfall of the country as derived from the data of about 2,000 rain-gauge stations.

Year.	Annual rainfall of India. Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
1891	51·52	55·61	−4·09	−7
1892	57·09	53·59	+3·50	+7
1893	61·66	53·21	+8·45	+16
1894	61·15	53·53	+7·62	+14
1895	49·22	53·11	−3·89	−7
1896	47·81	52·15	−4·34	−8
1897	52·76	51·31	+1·45	+3
1898	52·32	51·38	+0·94	+2
1899	45·01	51·78	−6·77	−13
1900	51·53	52·00	−0·47	−1
1901	48·14	51·89	−3·75	−7
1902	50·56	51·70	−1·14	−2
1903	52·97	51·59	+1·38	+3
1904	49·40	51·56	−2·16	−4
1905	48·72	51·64	−2·92	−6
1906	51·08	51·79	−0·71	−1

Similar data for India, excluding Burma, are given below:—

Year.	Annual rainfall of India excluding Burma. Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
1891	43·91	48·57	−4·66	−10
1892	49·99	46·03	+3·96	+9
1893	54·57	45·78	+8·79	+19
1894	53·80	45·97	+7·83	+17
1895	42·86	45·67	−2·81	−6
1896	39·39	45·02	−5·63	−13
1897	46·07	44·94	+1·13	+3
1898	45·96	45·02	+0·94	+2
1899	37·35	45·08	−7·73	−17
1900	44·85	45·32	−0·47	−1
1901	41·05	45·32	−4·27	−9
1902	44·02	44·89	−0·87	−2
1903	46·81	44·79	+2·02	+5
1904	40·81	44·77	−3·96	−9
1905	40·60	44·87	−4·27	−10
1906	45·42	45·03	+0·39	+1

These data differ slightly from those given in the following statement which is based on the returns of about 450 stations selected by the late Mr. Blanford as representative of the rainfall conditions in India. In the calculation of these averages allowance is made for the area represented by each station:—

Year.	Number of Divisions. Fall excessive.	Fall normal.	Fall deficient.	Rainfall. Actual.	Normal	Departure from normal.	Percentage departure from normal.
				"	"	"	
1875	16		8	43·47	41·09	+2·38	+ 6
1876	6		18	36·60	41·09	−4·49	−11
1877	10		14	36·81	41·09	−4·28	−10
1878	17	1	6	47·43	41·09	+6·34	+15

YEAR.	Fall excessive.	Fall normal.	Fall deficient.	Actual.	Normal	Departure from normal.	Percentage departure from normal.	YEAR.	Fall excessive.	Fall normal.	Fall deficient.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
				"	"	"						"	"	"	
1879	16	2	6	42·78	41·09	+1·69	+ 4	1893	22		1	50·16	41·09	+9·07	+ 22
1880	13	1	10	39·53	41·09	—1·56	— 4	1894	17		6	47·56	41·09	+6·47	+ 16
1881	15		9	41·19	41·09	+0·10	0	1895	5		17	38·90	41·09	—2·19	— 7
1882	17	1	6	43·73	41·09	+2·64	+ 6	1896	7	2	14	36·26	41·09	—4·83	—12
1883	11	1	12	40·97	41·09	—0·12	0	1897	10	2	11	40·94	41·09	—0·15	0
1884	12		10	42·82	41·09	+1·73	+ 4	1898	10	3	10	41·52	41·09	+0·43	+ 1
1885	15		7	42·14	41·09	+1·05	+ 3	1899	6		17	29·95	41·09	—11·14	—27
1886	14		8	44·11	41·09	+3·02	+ 7	1900	10		13	40·52	41·09	—0·57	— 1
1887	11		11	43·51	41·09	+2·42	+ 6	1901	5		18	36·96	41·09	—4·13	—10
1888	10		12	39·55	41·09	—1·54	— 4	1902	8		14	39·04	41·09	—2·05	— 5
1889	15		8	43·50	41·09	+2·41	+ 6	1903	9	4	10	43·06	41·09	+1·97	+ 5
1890	14	1	8	41·77	41·09	+0·68	+ 2	1904	7	2	14	36·32	41·09	—4·77	—12
1891	6		17	37·55	41·09	—3·54	—9	1905	8		15	35·51	41·09	—5·58	—14
1892	15		8	46·18	41·09	+5·09	+12	1906	7	7	9	42·28	41·09	+1·19	+3

HEM RAJ.

TABLE I.—Abstract of Observations taken at 8 h. at 241 Stations in India, Burma, etc., in the year 1906.

Table

Abstract of observations taken at 8 h.

Number of rainfall division.	Station.	Elevation of barometer above sea-level in feet.	Pressure 8 h. in inches.							Temperature of air.										
			Mean 8 h. pressure reduced to 32°.	Departure from normal.	Mean 8 h. pressure reduced to sea-level and to constant gravity at 45° lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 h. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	I.—Burma Coast and Bay Islands.	...	...	+·004	...	...	...	...	...	...	88·3	+0·6	74·3	+1·3	81·4	+0·9	14·0	...	...	37·5	22·8
1	Car Nicobar	25	29·887?	...	29·839?	30·043	29·692	·351	·157	82·2	87·3	...	77·3	...	82·3	...	10·0	99·9	71·6	27·4	17·2
	Slipper Island	93	29·835?	...	29·806?	30·093	29·459	·633	·192	81·9*	86·4*	...	78·2*	...	82·3*	...	8·2*	95·7	71·6	24·1*	16·0
	Port Blair	61	29·853	+·004	29·845	30·033	29·576	·457	·178	80·1	87·6	+0·2	77·2	+0·2	82·4	+0·2	10·3	98·2	70·9	27·3	18·1
	Mergui	119	29·817	+·007	29·807	29·992	29·603	·389	·171	79·1	88·5	+1·0	73·7	+2·6	81·1	+1·8	14·8	99·4	62·3	37·1	23·8
	Tavoy	26	29·826	+·005	29·877	30·109	29·711	·398	·167	76·3	88·9	+1·0	72·3	+1·3	80·6	+1·1	16·6	100·0	56·8	43·2	26·5
	Moulmein	94	29·825	+·001	29·857	30·044	29·560	·484	·188	77·4	89·2	+1·1	73·4	+1·0	81·3	+1·1	15·9	99·9	61·4	38·5	25·1
2	Rangoon	16	29·880	0	29·853	30·095	29·576	·519	·193	77·4	90·3	+0·8	74·4	+1·5	82·4	+1·2	16·0	104·1	63·8	41·3	25·0
	Bassein	27	29·881	+·007	29·854	30·093	29·551	·542	·198	77·0	89·8	+0·8	73·4	+1·3	81·2	+1·1	15·4	101·2	60·0	41·2	24·5
	Diamond Island ...	41	29·864	−·005	29·840	30·054	29·535	·529	·200	80·7	85·3	−0·2	76·6	+1·4	81·0	+0·6	8·6	92·3	70·2	22·1	15·3
5	Akyab	20	29·867	+·005	29·830	30·107	29·451	·656	·240	75·4	85·6	−0·5	72·7	+0·4	79·2	−0·1	13·0	97·9	54·1	43·8	22·9
3	Toungoo	193	29·721	+·008	29·848	29·946	29·407	·539	·208	76·8	91·4	+1·1	72·5	+1·9	82·0	+1·5	18·9	107·3	54·6	52·7	29·2
	II.—Burma Inland.	...	...	−·002	...	...	...	...	...	...	90·1	−0·2	68·8	+0·9	80·0	+0·4	20·4	...	...	62·3	32·3
3	Thayetmyo	130	29·750	?	29·814	30·024	29·349	·676	·225	78·2	92·9	+1·1	70·3	+0·7	81·6	+0·9	22·6	111·5	41·0	70·5	33·9
4	Minbu	*165*	29·703	?	29·814	29·973	29·327	·646	·223	76·3	91·5	−0·8	71·9	+0·8	81·7	0	19·6	111·1	47·0	64·1	32·3
	Yamethin	657	29·215	−·016	29·832	29·468	23·363	·505	·223	75·8	91·2	−0·9	70·9	+1·5	81·1	+0·3	20·4	103·3	50·2	58·1	31·7
	Monywa	280	29·637	...	29·846	29·910	29·273	·637	·242	76·4	91·5	...	72·1	...	81·8	...	19·4	113·2	50·6	62·6	31·6
	Mandalay	250	29·627	−·003	29·839	29·912	29·277	·635	·242	77·6	93·3	+0·9	72·9	+1·8	83·2	+1·4	20·4	113·6	50·7	62·9	32·7
	Myitkyina	458	29·412	...	29·840	29·716	29·041	·675	·236	70·9	85·2	...	65·6	...	75·4	...	19·6	101·3	43·3	58·0	31·5
	Bhamo	381	29·512	+·013	29·859	29·808	29·144	·664	·252	70·0	86·4	−1·2	64·8	−0·3	75·1	−0·8	20·5	102·4	42·2	60·2	32·4
	Maymyo	*3,545*	26·427	...	26·372	26·643	26·127	·521	·204	65·2	77·6	...	58·9	...	68·3	...	18·7	94·9	34·6	60·3	31·6
	Lashio	*3,751*	27·090	−·027	27·036	27·344	26·787	·557	·214	66·9	82·9	+0·3	60·6	+0·7	71·9	+0·5	22·1	101·0	39·1	61·9	33·7
	III.—Assam.	...	...	−·008	...	...	...	...	...	...	82·9	−0·5	66·7	0	74·8	−0·2	16·2	...	...	54·1	28·6
7	Silchar	101	29·782	−·005	29·842	30·076	29·338	·738	·262	...	...	−0·6	67·6	+0·1	76·5	−0·3	17·9	99·1	45·5	53·6	30·5
9	Sibsagar	38	29·756	−·009	29·837	29·873	29·149	·724	·283	68·6	89·3	−1·5	59·2	+0·3	73·3	−0·6	14·1	96·6	43·2	53·4	25·3
	Dhubri	115	29·741	−·011	29·815	30·085	29·312	·773	·292	72·0	83·5	+0·6	67·9	−0·3	75·7	+0·2	15·6	103·3	45·8	57·5	28·0
	Gauhati	195	29·638	...	29·813	30·019	29·241	·778	·289	70·6	84·7	...	63·3	...	75·5	...	18·4	97·5	42·6	54·9	30·4
	Tezpur	252	29·623	...	29·840	29·951	29·211	·740	·290	70·2	89·1	...	67·1	...	78·1	...	16·0	97·2	46·0	51·2	28·0
	Dibrugarh	353	29·527	...	29·850	29·944	29·127	·717	·282	68·3	80·4	...	65·0	...	72·7	...	15·4	97·1	43·4	53·7	28·6
	IV.—Bengal and Orissa.	...	...	+·003	...	...	...	...	...	...	86·6	−0·1	70·0	+0·5	78·3	+0·2	16·7	...	...	58·9	29·3
6	Chittagong	87	29·790	−·002	29·837	30·071	29·302	·769	·255	74·2	84·5	−0·3	69·6	+0·1	77·0	−0·1	14·9	92·2	49·1	43·1	25·1
	Noakhali	43	29·825	...	29·815	30·165	29·343	·762	·257	75·4	84·1	...	69·9	...	77·0	...	14·2	92·7	46·6	46·1	23·2
	Comilla	36	29·834	...	29·816	30·118	29·392	·726	·263	74·6	86·3	...	69·3	...	77·8	...	17·0	95·8	46·3	49·5	28·8
	Sirajganj	49	†29·833	...	† 29·833	30·129	29·342	·787	·278	73·3	85·5	...	69·2	...	77·4	...	16·3	106·3	44·6	61·7	29·3
	Narayanganj	26	29·849	+·016	29·833	30·142	29·410	·732	·263	74·9	86·1	−0·3	71·0	+0·5	78·6	−0·3	15·1	98·1	50·3	47·8	26·3
	Barisal	13	29·855	+·008	29·813	30·150	29·363	·787	·269	77·1	85·9	−0·1	70·9	+0·5	78·5	+0·2	15·0	95·8	46·7	49·1	27·0
	Mymensingh	63	29·812	+·003	29·837	30·115	29·377	·738	·269	74·3	85·2	+0·9	69·4	+1·0	77·3	+1·0	15·8	100·7	47·5	53·2	28·5
	Faridpur	46	29·820	...	29·817	30·127	29·353	·774	·268	74·8	85·6	...	69·4	...	77·5	...	16·2	103·8	46·0	57·8	28·9
10	Jessore	33	29·822	0	29·803	30·152	29·267	·885	·264	76·0	86·7	−1·0	70·2	+0·3	78·5	−0·4	16·5	106·5	45·1	61·4	29·3
	Calcutta	21	29·832	+·002	29·799	30·163	29·348	·850	·268	75·8	87·0	+0·4	71·2	+0·7	79·1	+0·6	15·8	105·6	46·4	59·2	28·5
	Saugor Island	25	29·829	+·004	29·798	30·135	29·316	·819	·275	77·8	86·4	+0·0	73·9	+0·1	80·2	+0·5	12·5	97·9	47·4	50·5	25·6
	Krishnagar	47	29·800	...	29·797	30·120	29·226	·894	·280	74·2	87·6	...	69·8	...	78·7	...	17·8	110·0	43·4	66·6	30·7

N. B.—Elevations in italics indicate barometrical determinations.

* Means of 9 months.
† „ „ 10 „

Note 1—When a query is inserted against any reading or in the returns of any
„ 2—The data from which divisional means of the figure columns Nos 3
„ 3—The barometric readings are not reduced to sea level in the cases hill

I.

at 241 stations in India, Burma, etc., in the year 1906.

Wind direction. Number of winds from: Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Wind velocity. Mean daily velocity in miles per hour, instruments not corrections applied.	Normal (uncorrected).	Percentage of departure from normal.	Mean humidity corrected (where possible.)	Hygrometry 8 h. Mean humidity at 8 h. of year.	Departure from normal of year.	Mean vapour tension at 8 h. of year.	Departure from normal of year.	Cloud. Mean amount at 8 h. of year.	Departure from normal of year.	Rainfall. Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	Station.	Number of rainfall division.
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
													85	0	·843	+·015	5·5	−0·4				121·66	141·37	−11·88		I.—Burma Coast and Bay Islands.	
14	29	69	12	13	19	83	65	23	3·8			3·8	82		·895		9·4		109			101·75			4·30	Car Nicobar.*	1
18	77	29	21	7	29	87	55	42	14·0			16·2	84		·912		8·0		82			71·09			3·68	Slipper Island.	
2	23	33	14	27	17	73	101	72	7·6	7·4	+1		86	0	·886	−·009	6·7	−0·3	114			99·78	117·63	−17·85	7·26	Port Blair.	
251	12	31	14	28	11	5	3	4	2·4	1·8	+33	2·2	86	+1	·889	+·023	3·8	−1·5	145	154·20	−9·20	161·95	188·37	−26·42	6·64	Morgui.†	
353	...	1	...	...	1	4	1	...	1·5				88	+1	·902	+·001	3·8	−1·3	128	147·30	−19·30	189·46	209 28	−19·82	10·06	Tavoy.	
220	9	21	28	41	33	16	6	1	2·3	2·8	−18	2·5	87	0	·822	+·022	6·1	+1·2	131	140·60	−9·60	186·25	183·92	+2·33	7·50	Moulmein.	
95	46	47	15	20	74	7	43	18	4·3	4·4	−2	3·9	85	−3	·815	+·010	5·3	+0·3	106	123 10	−17·10	86·10	96·78	−10·68	9·05	Rangoon.	2
112	20	21	12	17	45	45	44	49	5·0	3·8	+31		88	0	·832	+·015	4·7	−0·2	110	129·50	−18·50	83·54	112 00	−28·46	2·80	Bassein.	
21	45	73	23	14	17	80	36	56	8·6	7·1	+21		79	0	·543	+·026	4·4	−1·0	92	120·44	−28·44	114·72	116·08	−1·36	8·15	Diamond Island.	
24	91	111	40	43	38	11	1	6	4·4	3·7	+19	4·2	90	+2	·819	+·014	4·8	−0·3	107	118·70	−11·70	176·85	189·20	−12 35	8·20	Akyab.	5
132	25	4	3	61	47	64	2	37	5·6	3·0	+87	5·5	85	−1	·807	+·029	5·0	−0·2	108	113·60	−5·60	66·82	79·11	−12·29	3·10	Toungoo.	3
													80	0	·711	+·013	4·3	−0·1				46·12	40·05	+0·20	...	II.—Burma Inland.	
120	32	13	6	28	137	4	16	8	5·2	5·1	+2		76	0	·745	+·037	3·9	−0·3	66	72 50	−6·50	39·52	36·72	+2·80	2·75	Thayetmyo.‡	3
22	14	...	3	152	32	24	21	97	0·3			7·5	75	0	·710	+·008	3·5	+0·1	56	50·57	+5·50	33·32	31·86	+1·46	2·34	Minbu.	4
123	33	4	...	113	69	...	...	24	4·3			4·6	78	0	·715	+·013	4·7	+2·0	57	61·20	−4·20	27·61	37·56	−9·95	2·42	Yamethin.	
208	5	3	...	21	65	4	18	41	1·5			1·6	78		·725		4·7		44	44·60	−0·60	28·94	28·40	+0·54	3·00	Monywa.	
93	67	9	1	22	145	16	1	11	5·0			5·9	75	0	·713	+·003	2·6	−1·7	47	47·50	−0·50	34·65	32·36	+2·29	2·35	Mandalay.	
31	12	142	160	15	5	...	...	...	3·4			3·5	89		·694		6·1		102			84·41			3·75	Myitkyina.	
234	18	76	16	4	3	6	3	6	5·2			6·1	89	+2	·677	+·003	4·4	+0·7	96	99·80	−3·80	77·41	73·38	+4·03	6·00	Bhamo.	
193	...	10	...	9	20	112	18	3	2·0				64		·540		4·0		62	90·70	−8·70	50·59	58·95	−8·36	2·35	Maymyo.	
150	12	60	31	13	29	41	6	24	4·6				84	−2	·560	−·001	5·5	−1·2	84			54·78	61·28	−6·50	6·30	Lashio.	
													90	0	·696	−·001	5·9	−0·2				95·67	94·07	+1·60		III.—Assam.	
365	...	...	...	...	...	...	...	...	0·4	2·7	−96	0·2	7	−1	·726	−·001	5·0	−1·4	142	136·80	+5·20	120·50	124 86	−4·36	4·61	Silchar.	7
105	21	91	5	13	8	58	16	47	2·6	2·4	+8	2·4	94	−1	·690	−·031	8·2	+1·1	122	125·00	−3·00	120·39	96·21	+24·18	4 96	Sibsagar.	9
23	10	73	165	21	34	31	6	2	5·2	4·7	+11	5·5	98	+1	·716	+·018	4·6	−0·3	91	92·50	−1·50	112·50	93·28	+19·22	8·01	Dhubri.	
206	37	41	13	21	24	10	7	6	1·5			1·7	89		·699		6·6		90	91·51	−1·51	55·37	63·39	−8·02	4·14	Gauhati.	
281	...	33	47	3	...	1	...	...	3·1			3·3	89		·684		5·0		109	103·90	+5·10	66·70	71·66	−4·96	3·72	Tezpur.	
313	2	22	20	1	3	2	1	...	0·7			0·7	91		·660		6·1		132	131·80	+0·20	98·55	114·09	−16·44	2·93	Dibrugarh.‡	
													84	0	·751	+·010	4·4	+0·2				71·61	71·99	+0·41		IV—Bengal and Orissa.	
18	47	102	27	105	52	8	2	4	5·5	5·1	+8	5·1	86	−1	·750	−·013	4·7	−0·3	92	96·42	−4·42	111·48	96·52	+14·96	9·71	Chittagong.	6
111	14	35	34	57	53	27	9	25	4·0			4·3	86		·779		4·3		125	109·36	+15·64	116·65	113·68	+2·97	7·00	Noakhali.	
147	15	6	18	87	82	7	...	3	4·2			3·5	87		·772		3·2		110	100·25	+9·75	93·62	90·24	+3·38	11·50	Comilla.	
251	1	3	25	42	28	8	4	3	2·5			2·5	87		·751		5·2		84	78·66	+5·34	72 30	61·38	+10·92	9·83	Sirajganj.	
66	35	38	49	63	37	49	13	35	4·7	4·5	+4	3·8	87	+1	·788	+·010	5·9	+0·6	106	94·08	+11·92	76·17	69·60	+6·57	5·13	Narayanganj.	
160	22	39	6	32	73	16	1	16	2·9			2·5	86	0	·821	+·019	3·5	−1·3	98	97·90	+0·10	68·92	77·60	−10·68	4·00	Barisal.	
143	4	14	76	72	33	9	2	11	2·5			2·2	85	−3	·754	+·015	6·9	+2·1	105	104·22	+0·78	110·31	87·55	+23·76	9·41	Mymensingh.‡	
112	41	3	24	50	70	12	9	15	3·7			3·2	86		·779		4·2		95	89·40	+5·60	71·82	68·56	+3·26	2·75	Faridpur.	
253	16	6	10	26	37	5	7	4	1·5	3·2	−53	1·5	85	−1	·791	0	4·5	−0·2	91	88·45	+2·55	65·01	64·02	+0·99	2·77	Jessore,‡	10
31	46	27	33	38	42	32	24	42	4·4	4·8	−8		86	+3	·702	+·024	5·0	+0·8	83	85·54	−2·54	57·19	59·55	−2·36	3·18	Calcutta.	
2	46	76	25	22	81	70	22	21	12·6	10·7	+21		86	0	·843	+·010	5·9	+0·2	76	81·96	−5·96	45·07	72·23	−25·26	3·33	Saugor Island.	
125	20	12	20	33	57	23	29	37	1·6			1·8	88		·773		4·1		83	74·20	+8 80	53·18	55·12	−1·94	2 90	Krishnagar,§	

station the data for that station are not utilized in calculating the provincial departures from normal.
39 and 41 are derived are incomplete.
or plateau stations the elevations of which exceeds 3,200 feet.

* Wind direction for 327 days.
† ,, ,, ,, 350 ,,
‡ ,, ,, ,, 364 ,,
§ ,, ,, ,, 361 ,,

Table

Abstract of observations taken at 8 h.

Number of rainfall division.	Station.	Elevation of bar cistern above sea-level in feet.	Pressure 8 h. in inches.							Temperature of air.										
			Mean 8 h. pressure reduced to 32°.	Departure from normal.	Mean 8 h. pressure reduced to sea-level and to constant gravity at 45° lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 h. temperature of year	Mean maximum of year.	Departure from mean of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22.
	Midnapore	149	29·695	...	29·793	30·026	29·230	·796	·270	76·0	88·7	...	71·6	...	80·2	...	17·2	112·9	48·6	64·3	29·9
11	Bankura	293	29·525	...	29·704	29·959	29·052	·777	·270	75·7	88·8	...	70·6	...	79·8	...	18·2	114·1	47·1	67·0	31·4
	Raniganj	334	29·516	...	29·811	29·962	29·068	·794	·263	73·4	88·3	...	69·5	...	78·9	...	18·9	112·5	46·2	67·3	31·5
	Burdwan	99	29·751	−·001	29·801	30·065	29·244	·841	·276	75·3	88·1	−0·9	71·0	+0·4	79·6	−0·3	17·1	112·0	48·3	63·7	29·8
	Naya Dumka	489	29·354	...	29·811	29·703	28·907	·796	·267	74·0	87·1	...	68·4	...	77·9	...	18·8	111·4	43·0	68·4	32·2
	Berhampore	67	29·784	+·001	29·802	30·129	29·293	·836	·282	74·6	87·2	−0·5	70·0	+0·5	78·6	0	17·2	111·3	47·1	64·2	30·6
	Rampur Boalia	70	29·783	...	29·804	30·116	29·303	·813	·280	74·8	86·2	...	69·2	...	77·8	...	17·0	109·0	45·1	63·9	30·7
	Malda	72	29·759	...	29·784	30·105	29·312	·793	·283	73·5	85·9	...	68·1	...	77·0	...	17·7	108·5	43·1	65·4	31·9
	Bogra	61	29·780	+·001	29·795	30·111	29·355	·756	·271	73·4	86·3	−0·2	60·1	+0·9	77·7	+0·4	17·2	108·8	46 2	62·6	30·4
12	Dinajpur	123	29·726	+·001	29·807	30·064	29·296	·768	·279	72·8	86·1	0	67·1	0	78·0	0	19·0	108·2	42·4	65 8	32·7
	Rangpur	123	29·750	...	29·681	30·062	29·317	·745	·263	73·1	85·1	...	68·1	...	76·6	...	17·0	105·6	41·1	64·5	30·6
	Jalpaiguri	284	29·574	−·005	29·632	29·904	29·142	·762	·283	71·5	84·3	+0·5	66·7	+0·3	75·5	+0·7	17·6	101·5	41·6	59 9	29·8
	Cooch Behar	156	29·712	...	29·823	30·033	29·269	·764	·287	71·5	84·5	...	67·1	...	75·8	...	17·4	100·4	43·7	56·7	30·1
17	Purnea	125	29·731	+·005	29·814	30·089	29·280	·809	·283	72·6	86·1	−0·6	60·7	+0·3	75·4	−0·2	19·4	108·8	41·0	67·8	33·5
14	Balasore	50	29·805	+·005	29·788	30·127	29·277	·850	·287	76·1	88·3	−0·3	71·3	+0·8	79·8	+0·3	17·0	107·5	45·0	62·5	30·5
	Angul	...	29·391	...	29·813	30·097	29·503	·834	·234	76·1	90·7	...	70·3	...	80·5	...	20·5	112·7	47·1	65·6	33·4
	False Point	21	29·844	+·009	29·807	30·136	29·223	·903	·294	78·2	85·6	−0·1	72·8	+0·7	79·3	+0·3	13·0	97·7	46·9	50·8	25·2
	Cuttack	80	29·777	+·006	29·802	30·094	29·193	·838	·291	77·2	91·0	+0 2	73·3	+0·8	82·5	+0·5	18·3	112·0	51·1	60·9	30·6
	Puri	24	29·847	...	29·810	30·150	29·248	·902	·305	78·9	86·0	...	75·2	...	80·6	...	10·8	95·9	53·6	41·4	22·1
	V—Gangetic plain and Chota Nagpur.	...	...	+·002	...	...	...	...	...	...	88·1	−0·4	67·4	+0·2	778	−0·1	20·7	...	...	71·2	34.2
18	Hazaribagh	2,007	27·825	0	29·805	28·104	27·363	·741	·244	73·5	84·5	−0·1	66·2	+0·6	75·4	+0·3	18·3	106·6	42·2	64·4	31·9
	Ranchi	2,128	27·717	?	29·820	27·994	27·257	·737	·255	71·5	83·9	−0·6	66·3	+1·0	75·1	+0·2	17·6	106·8	43·0	63·8	30·3
	Daltonganj	730?	29·097	...	29·802	29·445	28·644	·801	·257	71·2	90·0	...	66·1	...	78·1	...	23·9	114·1	35·5	78·6	38·2
	Purulia	816	29·021	...	29·800	29·345	28·516	·829	·269	73·4	88·8	...	69·1*	...	79·0*	...	19·7*	113·8	45·4	68·4	32·9
	Chaibassa	760	29·067	−·003	29·792	29·396	28·607	·789	·272	73·1	89·6	−1·0	69·3	+0·4	79·4	−0·3	20·2	113·4	45·0	68·4	33·1
16	Gaya	375	29·458	−·004	29·794	29·816	29·068	·748	·256	74·0	89·6	−0·4	69·0	+0·2	79·3	−0·1	20·6	114·0	42·0	72·0	34·7
	Dehri	351	29·476	...	29·780	29·834	29·021	·813	·256	75·4	89·6	...	70·2	...	79·9	...	19·4	114·0	45·1	68·9	33·8
	Patna	183	29·654	−·007	29·794	30·036	29·195	·841	·262	75·1	87·2	−0·5	69·2	+0 6	78·2	+0·1	18·0	111·1	42·8	68·3	31·5
	Arrah	190	29·649	...	29·797	30·009	29·189	·820	·259	73·5	89·4*	...	67·8	...	79·4*	...	20·1*	112·9	40·5	72·4	33·5
	Buxar	230	29·543	...	29 789	29·959	29·135	·824	·265	73·6	88·6	...	68·3	...	78·5	...	20·3	113·9	41·9	71·0	33·9
17	Bhagalpur	180	29·690	...	29·805	30·068	29·232	·834	·270	*76·9	87·6*	...	*68·9	...	78·3*	...	18·7*	109·3	43 2	66·1	32·5
	Darbhanga	166	29·679	+·002	29·803	30·043	29·219	·824	·265	72·3	86·3	+0·5	67·2	−1·4	76·8	−0·5	19·1	107·1	42·2	64·9	32·1
	Pusa †	166	29·730	...	...	30·044	29·337	·707	·253	72·8	87·9‡	...	68·2	...	80·4‡	...	15·5	95·6	43·8	51·8	23·9
	Muzaffarpur	178	29·668	...	29·805	30·047	29·209	·838	·278	73·9	86·4	...	67·4	...	76·9	...	19·0	107·8	42·0	65·8	31·5
	Motihari	224	29·610	...	29·800	29·974	29·174	·800	·281	70·3	87·2	...	65·9	...	76·5	...	21·4	108·0	40·1	67·9	34·2
	Chapra	181	29·641	...	29·781	30·027	29·188	·839	·269	73·0	87·6	...	67·6	...	77·6	...	20·0	111·5	41·7	69·8	34·1
18	Benares	267	29·558	−·006	29·786	29·933	29·100	·833	·263	74·6	89·3	−0·3	64	−0·5	77·2	−0·4	22·2	114·0	37·0	77·0	37·2
	Allahabad	309	29·514	−·009	29·784	29·890	29·056	·834	·84	74·2	90·4	+0·2	67·0	+0·1	78·7	+0·2	23·4	115·2	36·5	78·7	38·0
23	Gorakhpur	257	29·563	−·005	29·783	29·925	29·140	·785	·279	73·8	87·3	−0·9	67·3	+0·1	77·3	−0·5	20·0	113·1	43·1	70·0	32·9
19	Lucknow	363	29·457	+·001	29·794	29·926	29·099	·817	·275	72·3	89·1	−0·6	65·8	+0·3	77·5	−0·2	23·3	112·8	35·1	77·7	37·4
20	Bahraich	401	29·408	−·010	29·779	29·770	28·992	·778	·260	72·6	88·1	−0·1	66·2	+0·5	77·3	+0·2	21·9	113·7	39·1	74·6	35·3
121	Cawnpore	416	29·406	+·002	29·792	29·766	28·967	·800	·279	27·6	89·2	−0·7	66·6	+0·1	77·9	−0·3	22·7	114·9	36·1	78·8	36·9
	Mainpuri	516	29·315	+·014	29·803	29·602	28·883	·810	·267	71·6	89·6	−0·2	65·8	+0·2	77·7	0	23·8	115·7	37·3	78·4	38·2

N.B.—Elevations in italics indicate barometrical determinations

* mean of 11 months.
† ,, 5 ,,
‡ ,, 4 ,,

NOTE—When a query is inserted against any reading or in the returns of any
,, 2.—The data from which divisional means of the figure columns Nos. 37

I.—*contd.*

at 241 stations in India, Burma, etc., in the year 1906—contd.

Wind Direction. Number of winds from.									Wind Velocity.			Hygrometry 8 h.			Cloud.		Rainfall.						Station.	Number of rainfall division.
Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Mean daily velocity in miles per hour derived from hourly means uncorrected.	Normal (uncorrected).	Percentage departure from normal.	Mean humidity at 8 h. of year.	Departure from normal of year.	Mean vapour tension at 8 h. of year.	Mean amount at 8 h. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.		
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
65	94	38	4	27	82	19	15	21	3·2	...	...	2·9	79	...	·726	...	3·2	...	83	78·22	+4·78	59·74	61·26	−2·52	3·64	Midnapore.	
214	11	33	52	8	7	9	35	6	2·8	...	...	2·5	77	...	·703	...	3·5	...	88	77·37	+10·63	59·71	56·48	+3·23	3·03	Bankura.	21
301	6	5	16	16	1	5	4	11	1·7	...	...	1·3	80	...	·696	...	3·7	...	69	72·95	−3·95	43·69	56·13	−12·24	2·55	Raniganj.	
150	38	20	29	9	28	47	23	21	2·2	3·3	−33	2·2	83	+7	·750	+·053	5·1	+0·6	90	77·88	+2·20	72·10	57·06	+16·04	8·44	Burdwan.	
305	2	2	22	15	10	3	4	2	1·7	...	...	1·7	77	...	·674	...	3·3	...	74	79·60	−5·60	46·38	53·65	−10·27	3·50	Naya Dumka.	
126	19	7	47	22	58	51	12	23	2·8	3·5	−20	3·2	84	−1	·755	+·012	5·0	+0·3	86	77·22	+8·78	54·92	55·13	−0·21	2·33	Berhampore.	
276	0	8	3	16	17	30	1	6	2·2	...	...	2·3	83	...	·744	...	3·6	...	80	76·14	+14·86	57·56	57·62	−0·06	3·35	Rampur Boalia.	
25	32	56	34	53	41	54	22	48	...	...	...	...	84	...	·698	...	2·9	...	75	69·20	+5·80	49·05	54·18	−5·13	5·90	Malda.	
267	5	9	44	14	17	5	...	4	1·8	...	...	1·5	84	0	·726	−·004	4·0	0	95	81·84	+13·16	69·83	67·14	+2·69	6·08	Bogra.	
102	16	61	59	33	22	29	23	18	2·6	...	...	2·6	83	0	·701	+·010	4·7	+0·5	88	77·09	+10·91	70·03	70·99	−0·96	3·70	Dinajpur,†	12
123	4	72	47	38	24	38	12	7	2·7	...	...	2·5	86	...	·743	...	5·2	...	80	81·61	−1·61	76·40	84·62	−8·22	4·32	Rangpur.	
197	23	33	52	35	8	1	3	12	1·3	...	...	1·5	86	0	·702	+·016	4·2	+0·4	96	99·26	−3·26	124·44	123·20	+1·24	4·32	Jalpaiguri.	
177	1	31	105	25	1	16	7	2	1·7	...	...	1·8	84	...	·684	...	4·6	...	93	100·59	−2·59	187·76	128·63	+59·13	7·32	Cooch Behar.	
136	3	93	34	36	3	22	20	19	2·0	2·4	−17	1·8	83	−1	·700	+·011	3·5	−0·1	77	70·51	+6·49	61·25	64·88	−3·63	4·24	Purnea.†	17
45	65	18	7	4	43	82	24	77	4·6	...	...	3·4	78	−5	·730	−·046	4·4	−0·5	85	81·12	+3·88	61·24	64·68	−3·44	2·74	Balasore.	14
38	26	39	27	32	14	12	66	111	6·1	...	...	5·3	77	...	·716	...	3·1	...	75	...	...	45·17	...	...	2·56	Angul.	
31	70	8	10	9	32	98	62	45	8·2	9·1	−10	8·6	84	−1	·832	−·005	5·6	+0·4	53	73·74	−20·74	40·17	65·69	−25·52	3·58	False Point.	
179	5	17	20	4	13	54	68	5	2·8	3·4	−18	...	82	+4	·784	+·045	4·8	+0·5	67	75·61	−8·61	47·09	59·70	−12·61	4·07	Cuttack.	
54	104	33	2	3	7	136	11	5	12·2	...	...	11·5	82	...	·833	...	3·9	...	53	62·68	−9·68	41·47	58·14	−16·67	3·45	Puri.	
...	...	...	...	...	...	...	...	...	...	...	...	...	73	0	·623	−·005	3·2	−0·1	...	...	...	46·13	45·97	+0·16	...	V.—Gangetic plain and Chota Nagpur	
25	26	7	25	20	53	79	65	65	7·7	6·8	+13	6·9	65	0	·825	+·004	4·5	+0·2	52	75·70	+6·30	41·36	53·40	−11·54	2·52	Hazaribagh.	15
19	27	13	24	22	28	54	87	91	6·2	...	...	7·3	68	+1	·534	−·004	4·3	+0·8	93	81·49	+11·61	63·20	55·79	+7·41	4·56	Ranchi.	
240	7	15	86	14	10	29	8	6	3·8	...	...	3·1	76	...	·601	...	3·0	...	74	62·52	+11·48	54·06	44·53	+9·53	2·36	Daltonganj.	
53	8	33	20	2	20	41	109	59	3·8	...	...	3·9	78	...	·662	...	4·0	...	88	75·91	+12·09	58·00	52·71	+5·29	5·69	Purulia.	
253	5	12	4	2	8	27	17	4	?	...	...	?	70	+5	·656	−·002	3·5	−0·1	86	75·80	+10·70	58·62	51·29	+17·33	4·80	Chaibassa.	
140	6	53	10	19	30	27	78	3	4·3	2·6	+65	3·4	72	+1	·651	+·014	3·7	0	62	57·38	+4·62	48·19	47·00	+1·19	3·64	Gaya.	16
21	11	10	50	24	77	120	43	9	6·1	...		5·4	68	...	·604	...	4·1	...	54	55·34	−1·34	34·64	43·20	−8·56	2·76	Dehri.	
57	8	22	82	32	18	46	93	17	5·1	3·0	+70	5·4	73	+1	·663	+·010	3·6	0	61	55·35	+5·65	40·22	48·04	−7·12	5·07	Patna.	
157	3	55	21	27	15	57	17	13	2·3	...	...	2·3	72	...	·620	...	1·6	..	57	55·93	+1·07	41·05	46·04	−4·99	3·50	Arrah.	
33	4	12	106	23	30	72	78	7	6·1	...	...	5·7	70	...	·606	...	3·5	...	51	54·74	−3·74	33·53	41·55	−8·02	4·60	Buxar.	
150	5	42	43	22	22	33	43	5	3·1	...	...	2·7	72*	...	·633	...	3·6	...	53	60·61	−7·61	39·45	49·36	−9·91	2·23	Bhagalpur.	17
201	10	39	50	8	7	17	29	4	2·9	3·6	−19	2·7	85	+6	·709	+·023	3·0	+0·1	60	58·35	+1·65	56·64	51·07	+5·57	5·45	Darbhanga.	
53	10	5	49	3	7	8	16	2	...	..	...	...	64	...	·716	...	3·6	...	29	...	...	28·44	...	...	4·90	Pusa.	
209	1	2	54	50	1	7	19	22	2·7	...	...	...	81	...	·701	...	1·7	...	63	55·97	+7·03	57·52	45·63	+12·19	3·61	Muzaffarpur.	
168	5	45	75	13	7	23	22	7	3·8	...	...	3·4	84	...	·648	...	3·5	...	59	55·74	+3·26	68·89	51·66	+17·23	5·12	Motihari.	
176	16	14	64	14	27	35	16	3	3·3	...	...	2·9	82	...	·707	...	2·4	...	51	52·29	−1·29	42·04	40·89	*1·15	4·50	Chapra.	
123	4	14	46	22	6	20	40	21	2·5	3·9	−36	3·0	71	−3	·641	+·016	3·1	−0·3	55	50·90	+4·10	40·77	40·99	−0·22	3·20	Benares.	18
73	7	41	43	10	12	40	105	34	4·9	4·6	+7	4·0	64	−3	·560	−·084	3·6	+0·1	47	45·30	+1·70	27·77	40·73	−12·96	3·31	Allahabad.	
221	3	46	29	7	4	9	30	16	1·1	2·5	−56	...	75	0	·658	+·016	2·5	−0·2	56	54·10	+1·90	45·07	52·01	−6·94	6·10	Gorakhpur.	23
202	9	11	32	34	7	32	28	10	2·30	3·1	−29	2·4	68	−2	·561	−·031	2·7	−0·6	54	51·00	+3·00	49·64	38·89	+10·75	4·90	Lucknow.	19
127	13	9	71	44	5	12	12	72	3·2	...	...	3·0	72	−3	·606	−·036	3·1	+0·3	53	50·40	+2·60	43·56	48·91	−5·35	2·83	Bahraich.	20
128	18	20	39	19	9	42	69	22	3·1	...	...	...	66	−1	·547	−·041	2·0	−0·9	47	43·00	+4·00	33·71	35·94	−2·23	3·98	Cawnpore.	21
117	16	14	34	34	6	25	61	53	2·1	...	...	2·1	67	+1	·542	−·012	2·7	−0·6	33	39·10	−5·10	25·23	31·76	−6·53	2·17	Mainpuri.	

station, the data for that station are not utilized in calculating the provincial departures from normal

28 and 41 are derived are incomplete.

† wind directions for 363 days.

* mean of 11 months.

Table

Abstract of observations taken at 8 h.

Number of rainfall division.	Station.	Elevation of bar cistern above sea level in feet	Pressure 8 h. in inches.							Temperature of air.											
			Mean 8 h. pressure reduced to 32°.	Departure from normal.	Mean 8 h. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure	Mean of 8 h. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	VI—Upper Sub-Himalayas.	...	...	0	...	...	...	...	...	...	86·3	−1·2	63·2	+0.3	74·8 ..	−0·4	23·1	...	...	79·3	38·0
24	Bareilly	568	29·270	+·002	29·820	29·591	28·866	·738	·270	66·4 (a)	86·5 (a)	0	60·9 (a)	+0·5	73·7 (a)	+0·3	25·6 (a)	111·5	35·1	76·4	38·7
	Dehra Dun	2,233	27·592	−·004	29·823	29·908	27·204	·704	·267	65·7	81·4	+0·3	60·6	−0·3	71·0	0	20·8	106·5	35·0	71·5	34·9
	Roorkee	899	29·016	+·005	29·809	29·259	28·488	·771	·283	68·4	85·4	−1·8	62·3	−0·3	73·9	−1·1	23·1	112·0	32·2	79·8	37·0
22	Meerut	738	29·075	0	29·798	29·440	28·660	·780	·279	69·9	87·2	−0·7	63·8	0	75·5	−0·4	23·4	112·3	34·1	78·2	37·5
26	Delhi	718	29·102	+·003	29·802	29·459	28·668	·801	·283	72·1	87·8	−1·2	67·4	0	77·6	−0·6	20·4	114·2	38·0	76·2	36·0
28	Lahore	702	29·097	−·005	29·791	29·495	28·612	·883	·322	69·5	88·8	−1·9	63·5	?	76·2	?	24·3	116·9	33·1	83·8	41·1
27	Sirsa	663	29·154	+·003	29·800	29·555	28·706	·849	·313	71·8	90·1	−1·8	65·2	+1·1	77·7	−0·4	24·9	117·3	33·0	84·3	41·1
	Patiala	848	28·992	...	29·799	29·370	28·551	·819	·301	70·0	89·9	...	63·4	...	74·7	...	23·5	112·0	33·4	78·6	36·7
20	Ludhiana	812	29·039	−·003	29·793	29·362	28·523	·839	·311	69·6	86·7	−1·5	61·6	+0·9	75·7	−0·3	22·1	114·8	35·0	79·6	37·0
	Sialkot	830	28·977	+·007	29·803	29·364	28·478	·886	·325	69·9	86·8	−0·9	63·1	+0·5	75·0	−0·2	23·7	113·9	34·0	79·9	39·6
	Ambala	892	28·910	+·002	29·795	29·270	28·472	·798	·285	67·0	85·2	−1·7	62·6	−0·6	74·4	−1·1	23·6	112·4	33·7	78·7	37·1
	Rawalpindi	1,674	28·140	−·005	29·836	28·487	27·661	·826	·339	66·1	83·0	−1·3	59·0	+1·4	71·0	+0·1	24·0	112·5	31·0	81·5	40·3
	VII—Indus Valley and North-West Rajputana.	...	...	+·005	...	...	...	...	...	...	90·7	−0·7	66·3	+0·8	78·5	+0·1	24·4	...	...	81·0	41·1
32	Peshawar	1,110	28·721	−·011	29·647	29·120	28·188	·932	·373	67·8	84·4	−1·3	60·9	+1·6	72·7	+0·2	23·5	115·0	29·9	85·1	51·3
	Dera Ismail Khan	590	29·235	−·009	29·790	29·636	28·703	·933	·367	70·1	88·8	−1·6	63·4	+1·0	76·1	−0·3	25·4	113·2	31·5	81·7	42·0
31	Khushab	612	29·203	+·015	29·808	29·625	28·695	·930	·355	71·8	89·3	−0·2	64·5	+0·8	76·9	+0·3	24·8	114·3	32·9	81·4	42·1
	Montgomery	558	29·253	+·009	29·792	29·676	28·750	·896	·341	73·6	91·0	−1·3	64·8	+0·4	77·9	−0·5	26·2	116·8	29·5	87·3	44·0
	Multan	420	29·383	−·011	29·780	29·846	28·873	·973	·364	73·2	91·9	0	67·3	+1·9	79·6	+1·0	24·6	117·5	34·5	83·0	40·2
47	Jacobabad	186	29·045	+·014	29·793	30·138	29·078	1·060	·344	73·4	95·5	−0·2	66·7	+1·4	81·1	+0·6	28·8	123·0	33·0	90·0	45·0
	Hyderabad	96	29·754	+·012	29·806	30·203	29·258	·945	·313	75·5	93·2	−0·2	68·7	+0·3	81·0	+0·1	24·5	116·2	40·0	76·2	38·6
	Kurrachee	30	29·844	+·006	29·825	30·266	29·355	·911	·304	75·0	88·0	+0·7	70·5	+0·7	79·3	+0·7	17·5	112·4	46·2	66·2	30·7
51	Bikaner	771	29·051	+·006	29·805	29·459	28·593	·866	·316	74·2	91·4	−0·7	59·6	−0·1	80·5	−0·4	21·8	116·8	35·6	81·2	38·8
	Pachpadra	380	29·480	+·022	29·827	29·864	28·999	·865	·298	74·0	92·9	−1·8	55·0	+0·1	73·9	−0·9	27·0	117·0	34·4	83·5	43·6
	Jodhpur	782	29·074	...	29·853	29·437	28·618	·819	·294	73·8	91·5	...	68·3	...	79·9	...	23·2	115·3	40·1	75·2	38·1
	VIII—East Rajputana, Central India and Gujarat.	...	...	+·009	...	...	...	...	...	...	89·6	−0·7	67·8	+0·3	78·7	−0·2	21·8	...	...	70·1	34·7
50	Jaipur	1,431	28·423	+·007	29·639	28·744	28·004	·740	·291	73·7	90·8	−0·1	66·2	+0·6	78·5	+0·3	25·6	114·7	34·5	80·2	40·7
	Kotah	819	29·004	...	29·836	29·368	28·536	·832	·288	75·9	91·4	...	70·1	...	80·8	...	21·2	116·6	43·5	73·1	35·3
	Sambhar	1,254	28·591	+·013	29·537	29·933	28·167	·766	·299	71·5	90·4	+0·3	65·4	+0·2	77·9	+0·3	25·0	114·5	33·0	81·5	40·6
	Ajmer	1,611	28·256	+·009	29·868	29·181	27·635	·746	·290	71·6	88·7	−0·2	67·4	?	78·1	?	21·3	111·9	38·9	73·0	35·1
	Udaipur	1,928	27·954	...	29·858	29·217	27·628	·719	·265	72·1	87·5	...	64·5	...	76·0	...	22·9	110·6	37·7	72·9	36·5
46	Bhuj	395	29·496	+·018	29·843	29·829	29·045	·784	·267	75·0	89·7	−1·7	68·6	−0·1	79·2	−0·9	21·1	112·6	43·7	68·9	33·9
	Jamnagar	61	29·333	...	29·839	30·181	29·386	·795	·263	74·8	89·2	...	68·0	...	78·5	...	21·2	107·2	44·2	63·0	34·5
	Rajkot	429	29·461	+·014	29·849	29·763	29·020	·743	·243	75·3	92·4	−0·7	65·5	−0·6	79·0	−0·7	28·9	112·4	41·0	71·4	39·6
	Veraval	18	29·681	+·011	29·841	30·143	29·462	·681	·228	75·7	84·4	−0·7	71·0	+0·1	77·7	+0·3	13·4	98·6	48·7	49·9	24·1
	Dwarka	37	29·862	...	29·845	30·194	29·406	·788	·253	77·2	83·6	...	72·4	...	78·0	...	11·2	98·3	51·6	46·7	12·1
	Bhavnagar Para	55	29·946	?	29·845	30·130	29·399	·731	·245	75·5	93·3	−0·1	68·2	?	80·8	?	25·1	113·7	40·5	73·2	35·6
49	Nowgong	757	29·081	−·001	29·814	29·434	28·614	·820	·277	72·2	93·5	−1·2	66·5	+0·9	77·5	−0·1	23·0	114·0	36·0	78·0	37·0
	Indore	1,823	28·064	?	29·867	29·326	27·636	·690	·251	72·3	87·4	−0·7	63·6	0	75·5	−0·3	23·7	110·6	38·1	72·5	37·0
	Neemuch	1,624	28·246	+·009	29·854	29·541	27·812	·732	·264	72·5	88·0	−1·0	64·5	0	76·3	−0·5	23·4	112·1	38·3	73·8	37·3
45	Surat	39	29·860	+·005	29·844	30·109	29·437	·672	·231	75·8	90·8	+0·7	70·2	+0·9	80·5	+0·1	20·5	109·1	47·2	60·9	32·0
	Ahmedabad	163	29·725	+·008	29·840	30·027	29·259	·768	·250	76·6	93·3	−0·7	70·0	−0·9	81·7	−0·8	23·2	117·4	47·2	70·2	35·2
	Deesa	466	29·405	+·004	29·835	29·717	28·949	·769	·261	74·0	93·5	−0·3	65·8	+1·3	79·7	−0·8	27·7	117·8	40·4	77·4	41·2
23	Agra	555	29·279	+·002	29·808	29·657	28·835	·822	·256	73·3	89·1	−1·7	68·9	+1·3	79·0	−0·2	20·2	114·0	39·9	74·1	34·7
21	Jhansi	868	29·000	+·014	29·830	29·352	28·547	·805	·281	75·8	91·1	−0·1	70·2	+1·9	81·0	+0·9	20·2	115·5	44·2	71·7	34·0

N.B.—Elevations in Italics indicate barometrical determinations.

* Mean of 11 months.
(a) „ 9 „

Note 1.—When a query is inserted against any reading or in the returns of any
„ 2.—The data from which divisional means of the figure columns Nos. 37,

I—*contd.*

at 241 stations in India, Burma, etc., in the year 1906—contd.

Wind Direction. Number of winds from.									Wind Velocity.				Hygrometry 8 h.			Cloud.	Rainfall.						Heaviest rainfall during year.	Station.	Number of rainfall division.
Calm.	N.	N. E	E.	S. E.	S.	S. W.	W.	N. W.	Mean daily velocity in miles per hour, instrumental errors uncorrected.	Normal (uncorrected).	Percentage departure from normal.	Mean velocity corrected (where possible).	Mean humidity at 8 h. of year.	Departure from normal of year.	Mean vapour tension at 8 h. of year.	Departure from Normal of year. Mean amount at 8 h. of year.	Departure from normal of year. Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from Normal of year.			
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
...	...	...	...	...	...	...	...	...	...	...	...	...	69	+2	·521	+·015	2·8	−0·4	...	...	...	40·52	36·57	+4·10	...	VI—Upper Sub-Himalayas.	
230	3	16	30	1	1	1	31	10	2·1	3·5	−40	2·0	(a) 70	+2	(a) ·455	−·009	2·2*	−0·8	49	47·17	+1·83	43·28	47·86	−4·58	6·38	Bareilly†	24
330	...	...	...	...	2	...	...	...	1·5*	1·8	−17	...	71	+1	·473	−·005	3·7	−0·3	57	50·90	+6·10	51·30	59·19	−7·89	7·07	Dehra Dun‡	
201	7	10	10	71	1	3	4	53	3·0	2·5	+20	3·0	73	+2	·525	+·003	2·7	−0·4	58	49·10	+6·90	57·95	43·22	+14·77	5·86	Roorkee.	
240	6	10	20	7	4	13	44	21	1·3	2·2	−41	1·3	66	0	·525	+·018	2·6	−0·4	47	37·00	+10·00	43·16	32·07	+11·09	3·58	Meerut.	22
47	14	10	29	54	11	30	103	62	(c)4·6	3·6	+28	(c)4·1	63	+5	·529	+·039	2·8	−0·6	42	37·10	+4·90	31·49	28·09	+3·40	4·23	Delhi.	26
164	21	9	47	51	10	4	31	28	·5	2·5	0	2·0	73	+8	·560	+·057	2·4	−0·3	28	22·90	+5·10	2·0·04	20·10	−0·06	4·43	Lahore.	28
201	5	9	19	23	15	39	41	14	1·7	3·6	−53	1·5	62	+3	·507	+·020	2·2	−1·1	22	23·30	−1·40	13·74	14·43	−0·69	2·41	Sirsa.	27
38	49	16	56	77	26	8	37	53	5·1	...	...	5·2	71	...	·557	...	3·2	...	50	...	...	38·80	...	...	3·84	Patiala.	
124	11	24	8	87	1	9	37	64	2·3	1·5	+53	2·1	66	0	501	−·015	2·2	−1·4	49	32·70	+15·30	27·36	28·67	−1·31	1·92	Ludhiana.	29
117	35	59	82	19	5	3	20	25	2·5	1·8	+39	2·1	69	+3	·539	+·029	2·0	−0·8	42	40·70	+1·30	37·79	31·75	+6·04	4·22	Sialkot.	
185	...	2	26	63	2	4	8	75	2·6	...	...	2·4	73	−1	·543	−·014	3·3	+0·6	58	36·90	+21·10	38·61	32·96	+5·65	3·00	Ambala.	
223	12	36	19	21	4	6	11	24	3·0	2·0	+50	2·7	70	+2	·475	+·015	3·9	+0·7	67	47·30	+19·70	52·64	33·98	+18·66	2·73	Rawalpindi.	
...	...	...	...	...	...	...	...	...	...	...	...	...	61	+2	·537	+·026	2·3	−0·4	...	...	...	10·15	9·99	+0·16	...	VII—Indus Valley and North-West Rajputana.	
270	19	8	6	4	11	10	19	13	1·2	3·4	−65	1·4	64	+1	·474	+·019	3·2	+0·2	31	23·50	+7·20	11·56	13·09	−1·53	1·59	Peshawar	32
249	1	54	2	21	1	2	...	35	1·2	1·8	−33	1·2	66	+2	·528	+·012	2·3	+0·3	21	17·60	+3·40	14·79	8·51	+6·28	1·60	Dera Ismail Khan.††	
61	28	128	37	18	26	28	19	12	7·9	...	...	7·6	60	+5	·501	+·053	1·8	−0·4	22	18·00	+4·00	14·31	14·12	+0·19	2·40	Khushab.§	31
61	22	32	36	59	53	58	17	27	6·5	...	...	6·2	57	+2	·485	+·010	1·7	−0·5	21	16·10	+4·90	14·10	10·25	+3·85	2·38	Montgomery.	
166	35	35	5	45	20	50	1	8	1·8	2·5	−28	1·6	59	−1	·520	+·005	1·3	−0·4	12	12·40	−0·40	4·98	7·30	−2·62	1·10	Multan.	
55	41	25	35	34	67	21	17	40	3·9	3·4	+15	4·6	62	+7	·563	+·055	1·5	−0·5	13	8·20	+4·80	5·57	3·78	+1·79	1·01	Jacobabad	47
28	68	12	3	8	49	147	14	33	9·5	10·1	−6	8·5	59	+1	·560	+·031	1·7	−1·0	11	9·70	+1·30	7·45	6·90	+0·55	1·60	Hyderabad.‖	
16	36	79	8	4	...	21	127	74	11·2	13·3	−16	10·5	72	−1	·677	−·001	4·3	+0·7	11	9·30	+1·70	6·47	8·26	−1·79	1·22	Karrachee.	
33	7	10	26	50	64	94	66	15	(a) 7·5	4·8	+56	(b)7·4	58	+5	·553	+·054	2·3	−0·3	23	18·80	+4·20	12·08	11·29	+0·79	1·92	Bikaner	51
21	2	42	43	22	65	92	35	24	9·8	5·8	+69	9·2	59	−3	·571	+·021	1·2	−2·2	16	19·10	−3·10	9·51	13·30	−3·79	2·63	Pachpadra.	
46	30	72	19	4	25	112	43	13	6·2	...	...	5·4	51	...	·474	...	3·6	...	18	20·30	−2·30	11·16	13·14	−1·98	1·79	Jodhpur.¶	
...	...	...	...	...	...	...	...	...	...	...	...	...	62	−1	·568	−·004	3·2	+0·1	...	...	...	27·56	28·51	−0·44	...	VIII—East Rajputana, Central India and Gujarat.	
64	43	44	38	11	5	14	66	60	4·9	5·1	−4	...	52	−6	·459	−·035	3·0	−0·2	27	37·80	−10·80	13·02	26·05	−31·03	1·80	Jaipur	50
151	20	11	7	4	...	41	55	45	3·3	...	...	2·6	49	...	·461	...	2·7	...	35	37·60	−2·60	36·32	29·92	+6·40	6·97	Kotah.	
156	28	16	22	5	5	6	89	38	6·7	6·7	0	...	58	+1	·482	+·002	2·6	−0·3	22	31·30	−9·30	16·36	20·74	−4·38	3·10	Sambhar.	
108	9	39	3	17	3	35	71	80	7·2	4·3	+67	6·3	61	−2	·510	+·008	3·2	+0·5	35	32·60	+2·40	19·34	21·80	−2·46	3·10	Ajmer.	
218	7	4	4	2	12	40	66	17	4·6	...	...	4·0	59	...	·498	...	3·0	...	34	34·10	−0·10	25·82	...	...	3·20	Udaipur.	
44	19	19	7	3	6	73	93	88	13·3	10·2	+30	10·3	72	+8	·678	+·067	2·9	0	27	16·10	+10·90	18·25	14·52	+3·73	2·35	Bhuj.‡	46
106	10	13	20	5	31	106	58	16	11·2	...	...	11·0	69	...	·647	...	2·1	...	31	...	...	24·95	...	...	2·93	Jamnagar.	
66	21	32	20	8	14	103	64	37	8·0	9·2	−13	7·9	67	0	·650	+·026	3·3	+0·3	36	30·90	+5·10	26·41	28·13	−1·72	3·08	Rajkot.	
8	95	54	3	4	14	71	67	49	11·7	7·9	+48	11·7	70	0	·659	−·007	2·8	−1·1	24	29·20	−5·20	22·16	18·24	+3·92	4·30	Veraval.	
7	42	38	6	3	32	100	62	65	13·4	...	...	...	79	...	·762	...	3·7	...	29	...	...	23·78	...	...	6·58	Dwarka.**	
12	14	12	1	4	2	125	42	153	8·0	...	...	6·8	57	?	·543	?	3·5	+0·2	26	34·70	−8·70	19·62	19·76	+0·16	3·02	Bhavnagar Para.	
69	30	14	32	10	40	40	114	26	2·1	2·5	−16	2·1	64	−2	·524	−·021?	4·3	+1·0	46	50·70	−4·70	46·63	44·96	+1·67	6·66	Nowgong	49
112	16	43	10	11	2	17	114	40	5·7	4·2	+36	4·6	59	−4	·495	−·028	4·1	+0·7	48	45·30	+2·70	47·16	33·64	+13·52	5·90	Indore.	
33	78	46	17	4	4	69	82	31	9·2	10·1	−9	7·7	52	−6	·463	−·049	3·5	+0·9	33	37·40	−4·40	27·33	30·08	−2·75	3·35	Neemuch.	
42	66	36	38	19	66	39	42	17	6·3	9·0	−30	6·0	75	+2	·686	+·006?	3·4	0	54	47·40	+6·60	29·86	44·03	−14·17	2·00	Surat	45
5	24	73	43	6	14	81	63	54	5·6	...	...	5·2	58	−2	·662	−·020	4·2	+0·6	40	37·20	+2·80	37·95	33·24	+4·71	5·79	Ahmedabad.††	
17	23	91	42	8	48	78	40	17	9·5	10·2	−17	...	58	+2	·533	+·009	3·2	−0·2	42	28·81	+13·19	23·59	24·12	−0·23	2·73	Deesa.¶	
51	...	21	...	103	...	166	...	24	6·9	4·2	+17	5·8	60	−1	·518	−·015	2·9	+0·1	40	35·30	+4·70	24·18	28·42	−4·24	3·34	Agra	22
142	9	20	11	17	8	63	53	42	4·3	3·4	+26	5·3	69	?	·666	?	1·6	−0·8	45	43·90	+1·10	40·35	38·51	+1·84	3·44	Jhansi	21

station, the data for that station are not utilized in calculating the provincial departures from normal.
30 and 41 are derived are incomplete.

(a) Mean of 9 months.
(b) " 3 "
(c) " 11 "
(e) " 10 "

† Wind direction for 323 days.
‡ " " 352 "
* " " 357 "
†† Wind direction for 363 days.
‖ Wind direction for 362 days.
¶ " " 364 "
** " " 355 "

Table

Abstract of observations taken at 8 h

Number of rainfall divisions.	Station.	Elevation of barometer above sea-level in feet.	Pressure 8 h. in inches. Mean 8 h. pressure reduced to 32°.	Departure from normal.	Mean 8 h. pressure reduced to sea-level and to correct for gravity at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure	Temperature of Air. Mean of 8 h. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	0	21	22
	IX.—Deccan.	...	...	0	...	...	...	...	...	...	90·5	+0·2	67·9	+0·5	79·2	+0·3	22·6	...	...	66·0	35·4
38	Belgaum	2,539	27·378	+·006	29·869	27·535	27·065	·450	·171	71·3	84·7	+0·3	64·0	0	74·4	+0·2	20·8	102·3	49·0	53·3	31·1
	Sholapur	1,590	28·307	−·001	29·860	28·517	27·954	·563	·190	76·0	93·7	+0·7	63·1	+1·1	81·4	+0·9	24·6	110·2	51·6	58·6	36·0
	Poona	1,940	28·068	+·000	29·800	28·292	27·714	·578	·201	71·6	89·3	−0·1	63·5	−1·3	76·4	·0·7	25·7	109·1	43·5	66·6	39·2
	Bijapur	*1,948*	27·957	+·002	29·691	28·176	27·622	·554	·194	75·1	91·4	+1·4	63·	+0·5	79·7	+1·0	23·2	107·5	51·1	56·4	34·2
40	Malegaon	1,430	28·455	−·008	29·859	28·690	28·073	·623	·221	73·9	93·3	+0·7	64·8	−0·4	78·6	+0·2	27·6	113·3	40·1	73·2	39·3
	Ahmednagar	2,154	27·764	?	29·881	27·991	27·398	·593	·207	73·7	90·7	+1·8	64·5	+1·0	77·6	+1·5	26·2	109·5	45·1	64·4	38·9
41	Akola	930	28·936	−·004	29·831	29·215	28·500	·715	·241	75·5	93·3	+0·4	67·3	+0·2	80·3	+0·3	26·0	115·5	40·4	75·1	40·7
	Amraoti	1,215	28·654	+·008	29·835	29·224	28·483	·741	·246	76·6	92·4	+0·4	69·5	+0·6	81·0	+0·5	22·9	116·0	49·8	66·2	35·8
42	Khandwa	1,044	28·822	−·001	29·843	29·110	28·371	·739	·251	73·3	91·4	−0·3	66·7	−0·2	79·1	−0·3	24·8	114·7	38·2	76·5	40·0
	Hoshangabad	1,006	28·855	−·001	29·843	29·182	28·370	·812	·270	72·8	89·5	−0·9	66·1	−0·9	77·8	−1·0	23·4	114·8	40·3	74·0	37·3
	Nagpur	1,025	28·846	+·005	29·826	29·122	28·381	·761	·254	75·6	91·5	−0·5	68·8	−0·1	80·3	−0·2	22·7	115·7	42·6	73·1	35·7
43	Chanda	*634*	29·288	−·001	29·827	29·511	28·799	·712	·245	76·5	92·8	−0·1	69·6	+1·0	81·2	+0·5	23·2	115·0	45·7	71·9	37·0
	Seoni	2,033	27·820	+ 0·1	29·832	28·096	27·325	·761	·248	73·1	89·2	+0·4	66·1	+1·2	77·2	+0·8	22·1	111·9	43·0	68·9	34·6
	Jubbulpore	1,327	28·517	0	29·833	28·832	28·026	·812	·278	71·3	88·4	−0·1	64·6	+0·1	76·5	0	23·8	113·0	34·6	78·2	38·9
	Saugor	1,807	28·045	+·002	29·827	28·335	27·583	·752	·265	73·5	87·4	−0·7	67·2	+1·0	77·3	+0·2	20·2	112·5	41·0	71·5	34·0
49	Sutna	1,040	28·783	−·008	29·804	29·120	28·316	·804	·279	73·4	88·6	+0·5	67·0	+1·3	77·8	+0·9	21·6	113·6	37·1	76·5	37·2
44	Raipur	970	28·872	−·004	29·807	29·168	28·380	·769	·232	75·0	89·6	−0·9	69·4	+0·1	79·5	−0·4	20·2	113·3	43·4	65·4	32·0
	Pendra	2,123?	27·803	...	29·811	28·085	27·359	·726	·253	72·2	85·9	...	66·1	...	76·0	...	19·8	110·4	41·5	68·9	33·6
	Sambalpur	496	29·360	−·005	29·803	29·069	28·833	·856	·290	76·1	90·2	−0·7	70·6	+0·6	80·4	−0·1	19·6	114·1	42·7	71·4	32·0
39	Aurangabad	1,905	27·985	...	29·854	28·208	27·628	·580	·202	75·6	90·6	...	65·8	...	78·3	...	24·8	110·6	45·2	65·4	38·3
	Indur	1,240	28·641	...	29·832	28·880	28·304	·576	·171	73·1	92·1	...	69·6	...	80·9	...	22·5	111·6	48·1	63·5	32·9
	Bidar	*2,165*	27·755	...	29·839	27·973	27·419	·554	·210	76·4	89·1	...	70·1	...	79·6	...	18·9	107·2	56·7	50·5	30·6
53	Gulbarga	1,503	28·391	?	29·841	28·537	28·020	·567	·201	76·6	93·1	+0·8	69·7	+1·0	81·4	+0·9	23·4	110·8	48·2	62·6	35·5
	Raichur	*1,811*	28·580	+·002	29·843	28·776	28·249	·527	·179	78·0	92·7	+0·6	72·5	+0·9	82·6	+0·8	20·2	109·5	56·7	52·8	32·4
	Hyderabad (Deccan)	1,690	28·197	0	29·849	28·410	27·826	·584	·203	75·5	90·8	+0·3	70·5	+2·1	80·7	+1·2	20·3	109·3	52·8	56·5	32·1
	Hanumkonda	871	28·991	...	29·816	29·230	28·589	·641	·238	78·0	92·3	...	72·9	...	82·6	...	19·4	112·7	55·7	57·0	31·7
	X.—West Coast.	...	...	+·006	...	...	...	...	...	..	86·1	−0·3	74·6	+0·8	80·4	0	11·4	...	...	29·6	19·3
37	Bombay	37	29·875	+ 001	29·853	30·084	29·481	·623	·303	77·7	86·1	+0·3	74·7	−0·2	80·4	+0·1	11·4	94·0	60·0	34·0	19·1
	Ratnagiri	110	29·805	+ 012	29·855	30·094	29·464	·630	·168	77·9	86·7	−0·8	73·5	+0·4	80·2	−0·2	13·2	98·3	60·0	38·3	23·0
	Mormugao	60	29·874	+·016	29·860	30·049	29·596	·453	·163	78·0	85·2	−1·0	74·8	−0·3	80·0	−0·6	10·5	94·5	65·3	29·2	18·7
	Goa	199	29·723	0	29·862	29·899	29·423	·476	·171	76·1	84·9	−1·2	75·3	+0·9	80·1	−0·1	9·6	92·0	65·0	27·0	18·3
	Karwar	44	29·885	+·006	29·865	30·049	29·639	·410	·149	75·6	86·0	−0·3	72·5	−0·2	79·3	−0·2	13·5	92·8	59·5	33·3	21·4
33	Cochin	10	29·929	−·001	29·867	30·071	29·790	·281	·125	79·6	88·3	+0·7	75·6	+0·7	82·0	+0·7	12·7	95·3	68·7	26·6	20·1
	Calicut	27	29·915	+·004	29·869	30·001	29·736	·325	·137	78·8	86·8	−0·2	75·0	+0·9	80·9	+0·4	11·8	94·4	63·2	28·2	18·0
	Mangalore	65	29·877	+·005	29·875	30·029	29·636	·393	·142	79·3	85·9	−1·2	74·7	+0·5	80·3	−0·4	11·3	95·7	66·0	29·7	19·7
	Trivandrum	198	29·736	+·007	29·867	29·851	29·593	·258	·134	78·3	84·6	+0·6	75·4	+0·3	80·0	+0·4	9·2	91·5	69·5	22·0	15·0
	XI.—South India.	...	...	0	...	...	...	...	...	...	91·1	+0·7	73·1	+1·1	82·1	+0·9	18·0	..	...	47·1	29·0
57	Pamban	37	29·876	−·003	29·840	30·065	29·647	·421	·183	81·0	88·5	+1·2	73·2	+0·6	83·4	+0·9	10·3	96·8	72·2	23·6	17·2
	Tinnevelly	168	29·759	+·005	29·856	29·958	29·556	·402	·157	82·4†	94·3†	+0·7†	76·3†	+0·2†	85·4†	+0·5†	18·3†	107·1	66·9	40·2	28·3
	Madura	447	29·475	+·014	29·860	29·672	29·251	·421	·162	81·1	94·2	+0·3	74·9	+1·1	84·6	+0·7	19·3	107·0	65·6	41·4	29·7
	Periyakulam	945	28·968	...	29·858	29·151	28·759	·392	·153	77·5	92·1	...	70·9	...	80·3	...	21·4	104·2	59·3	44·9	32·7
34	Salem	940	29·001	−·006	29·867	29·192	28·755	·437	·159	78·9	93·9	+1·0	73·0	+2·3	83·5	+1·6	20·9	107·7	57·3	50·4	32·2
	Coimbatore	1,348	28·573	−·003	29·880	28·754	28·331	1·423	·185	75·3	90·3	0	70·4	+0·8	80·4	+0·4	19·9	104·4	50·3	48·1	29·3
35	Mercara	3,761	26·211	+·013	26·174	26·382	26·034	·348	·135	65·8	77·0	+0·5	61·7	+0·3	69·4	+0·4	15·4	91·5	53·1	38·4	24·9

N.B.—Elevations in italics indicate barometrical determinations. * Mean of 11 months. † „ 10 „

Note 1.—Where a query is inserted against any reading or in the returns of any „ 2.—The data from which divisional means of the figure columns Nos. 37

I—*contd.*

at 241 stations in India, Burma, etc., in the year 1906—contd.

Wind direction. Number of winds from									Wind Velocity,			Hygrometry 8 h.			Cloud.		Rainfall.							Station.	Number of rainfall division.
Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Mean daily velocity in miles per hour, inclusive of calms recorded.	Normal (incorrected).	Percentage departure from normal.	Mean velocity corrected (where possible).	Mean humidity at 8 h. of year.	Departure from normal of year.	Mean vapour tension at 8 h. of year.	Departure from normal of year.	Mean amount at 8 h. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.		
23	24	25	26	27	28	29	30	31	33	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
...	...	...	...	...	...	...	...	...	...	...	...	...	62	−3	·537	−·027	3·7	+0·1	...	...	...	40·74	40·34	−0·51	...	IX.—Deccan.	
182	5	9	20	19	4	33	73	20	10·6	15·7	−31	...	70	0	·537	0	4·6	+0·3	72	83·30	−11·30	47·53	50·13	−2·57	3·30	Belgaum . . .	38
5	27	57	23	34	6	51	49	114	11·0	8·9	+24	10·9	54	−1	·489	−·014	4·0	0	34	42·00	−8·00	19·65	30·98	−11·33	1·92	Sholapur.	
113	4	9	14	4	4	61	126	30	10·3	10·0	+3	...	61	−2	·489	−·018	3·4	−0·5	34	49·60	−15·60	23·64	27·89	−5·25	3·82	Poona.	
7	17	47	16	21	16	63	120	59	8·0	...	...	...	67	−3	·588	−·0167	4·1	+0·2	39	42·40	−3·40	23·99	24·58	−0·59	3·55	Bijapur.	
29	18	11	4	2	...	44	153	104	9·4	7·3	+31	10·8	52	−11	·465	−·100	1·5	−2·0	33	34·90	−1·90	22·25	24·08	−1·84	2·91	Malegaon . . .	40
40	39	7	8	6	8	48	53	156	7·4	...	...	9·0	53	−14	·444	−·120	1·8	−1·5	39	39·60	−0·60	23·12	22·41	+0·71	3·80	Ahmednagar.	
71	2	26	29	34	8	28	99	78	8·3	5·5	+15	5·6	60	?	·533		3·9	+0·5	48	45·10	+2·90	37·10	34·16	+2·94	6·08	Akola	41
73	16	58	45	6	4	44	94	25	5·9	4·7	+25	5·3	56	−3	·503	−·034	3·4	−0·1	49	46·60	+2·20	37·94	34·63	+3·31	3·40	Amraoti.	
126	7	19	16	3	..	12	63	119	5·4	5·4	0	5·4	57	−2	·488	−·013	3·3	+0·3	40	42·30	−2·30	44·65	31·35	+13·30	6·46	Khandwa . . .	42
95	1	20	34	1	15	99	42	8	3·5	3·0	+17	3·6	63	−3	·529	−·022	3·9	+0·4	56	56·00	0	44·27	52·08	−7·81	4·54	Hoshangabad.	
42	103	47	10	8	17	47	60	51	5·5	6·4	−14	4·4	58	−3	·526	−·027	3·6	−0·3	66	58·60	+7·40	64·26	49·49	+14·87	6·57	Nagpur	
150	21	10	13	18	20	37	54	42	4·7	3·7	+27	4·2	63	−2	·569	−·020	3·8	+0·2	61	61·70	−0·70	51·80	55·75	−3·95	7·29	Chanda . . .	41
70	49	73	17	13	23	37	37	46	6·7	3·9	+72	5·7	61	−3	·493	−·037	3·8	+0·3	63	71·40	−8·40	53·84	55·27	−1·43	5·65	Seoni.	
44	15	20	11	63	61	49	72	30	3·6	3·3	+9	3·1	61	−4	·502	−·033	3·7	+0·3	65	63·90	+1·10	50·79	59·11	−8·32	4·66	Jubbulpore.	
36	12	39	33	34	15	76	100	20	7·0	3·5	+100	6·2	52	−7	·436	−·059	3·4	+0·4	53	58·10	−5·10	49·40	48·57	+0·83	10·00	Sadgor.	
123	5	18	30	9	6	36	95	43	3·0	6·1	−51	2·7	65	+4	·549	+·037	5·3	+2·4	50	54·60	−4·60	43·64	45·88	+2·76	3·61	Sutna	49
134	18	32	16	6	10	100	27	16	4·9	5·6	−13	5·9	69	+6	·690	+·025	3·5	−0·8	56	62·50	−6·50	46·53	50·65	−4·12	6·46	Raipur . . .	44
135	30	15	10	14	48	23	18	70	4·6	...	...	3·9	63	...	·502	...	4·2	...	79	...	...	65·84	...	...	6·12	Pendra.	
1	23	56	72	60	29	98	24	4	4·4	2·3	+91	4·3	71	0	·650	−·009	4·3	+0·4	79	72·00	+7·00	56·70	67·39	−10·69	2·79	Sambalpur.	
103	20	33	43	1	3	27	110	26	10·4	10·3	+1	...	56	...	·505	...	3·3	...	32	47·40	−14·40	30·05	30·45	−0·37	3·94	Aurangabad . .	39
131	14	30	1	3	..	9	2	175	4·1	...	...	3·4	63	...	·621	...	3·5	...	55	53·30	−3·30	43·21	39·57	+3·64	3·76	Indur.	
...	57	40	29	23	41	88	57	27	6·6	...	...	5·5	64	...	·516	...	3·9	...	48	59·10	−11·10	40·02	39·71	+0·31	3·22	Bidar.	
65	31	56	37	11	5	21	67	52	9·8	...	...	8·5	67	+3	·625	?	3·5	−0·3	63	46·70	+4·30	31·57	31·75	−0·18	3·55	Gulbarga . . .	53
45	19	31	19	44	9	72	95	26	12·6	...	...	11·9	62	−3	·596	−·009	4·4	+0·7	57	44·20	+12·80	32·20	30·74	+1·46	3·05	Raichur.	
242	2	...	3	3	1	6	95	13	4·4	...	...	*3·8	68	−2	·594	−·028	4·6	+1·0	54	...	...	33·45	31·56	+1·89	2·38	Hyderabad (Deccan).	
70	37	3	5	79	47	31	51	42	8·5	...	...	7·5	65	...	·624	...	4·6	...	56	51·40	+4·60	37·45	...	...	4·23	Hanumkonda.	
...	...	...	...	...	...	...	...	...	,,	...	...	...	81	+1	786	+·004	4·8	+0·3	...	...	...	90·45	101·74	−11·29	...	X.—West Coast.	
1	43	85	61	23	21	51	51	30	9·5	12·2	−22	...	78	0	·759	−·012	4·1	−0·1	69	75·60	−6·60	56·30	75·21	−18·91	4·63	Bombay . . .	37
41	47	39	92	50	8	33	36	19	10·2	10·2	0	9·8	75	+3	·727	0	3·9	0	78	93·30	−15·30	92·06	107·35	−15·29	6·58	Ratnagiri.	
37	43	112	40	10	60	29	13	12	6·7	...	...	...	84	+1	·808	−·007	5·0	+1·2	99	...	...	86·92	93·43	−6·51	5·20	Mormugao.	
11	35	59	131	13	15	32	38	29	††8·6	...	...	...	78	0	·759	−·020	4·8	+0·6	100	...	...	90·04	99·43	−8·39	5·23	Goa.‡	
115	63	59	31	6	1	29	41	20	4·0	...	...	...	80	+3	·769	+·025	4·0	+0·2	87	105·50	−18·50	93·94	123·78	−29·84	4·50	Karwar.	
28	19	116	108	32	8	6	19	29	7·0	...	...	...	80	−1	·819	+·007	5·1	+0·4	118	130·60	−12·60	103·98	115·63	−11·65	5·18	Cochin . . .	53
88	35	56	31	25	8	5	13	53	6·9	...	...	6·9	83	0	·823	+·021	5·1	+0·3	106	116·10	−10·10	99·75	115·11	−15·36	5·37	Calicut.§	
81	33	49	123	10	7	5	24	23	6·2	3·4	+53	...	82	+1	·819	+·030	5·6	+0·5	103	117·90	−15·90	114·43	123·94	−9·51	5·57	Mangalore.	
118	62	23	13	...	...	3	22	219	4·8	...	...	...	81	−1	·789	−·005	5·5	0	96	92·90	+13·10	76·60	62·78	+13·82	3·29	Trivandrum.	
...	...	...	...	...	...	...	...	...	...	...	...	...	76	+1	·742	+·013	4·9	+0·2	...	...	...	39·50	36·15	+3·51	...	XI.—South India.	
103	22	45	28	17	43	53	30	24	10·2	...	...	10·7	62	...	·893	...	3·8	...	45	42·70	+2·30	34·83	38·97	−4·09	3·94	Pamban . . .	57
50	73	41	6	6	4	33	83	63	5·7	...	...	5·5	71	+2	·717	−·025	5·2	+0·5	45	41·40	+3·60	29·17	28·63	+0·54	2·62	Tinnevelly.‡	
27	52	71	27	6	5	12	68	97	5·7	4·2	+36	6·5	74	+4	·780	+·044	5·3	+1·1	41	50·20	−9·20	32·65	30·30	−0·75	3·13	Madura.	
255	17	29	9	14	9	2	16	14	2·4	...	...	2·7	72	...	·690	...	4·8	...	64	48·30	+15·70	43·30	28·86	+14·44	5·70	Periyakulam.	
64	9	32	60	2	11	103	67	17	5·6	4·4	+27	4·9	61	+5	·799	+·070	4·8	+0·4	69	59·50	+9·50	34·13	40·50	−6·37	1·85	Salem . . .	74
55	22	51	44	5	44	99	36	9	6·5	4·8	+35	6·0	90	−3	·771	−·020	4·6	−0·1	53	43·80	+8·20	28·99	25·90	+3·09	1·69	Coimbatore.	
66	33	43	48	7	6	11	76	75	3·9	5·8	−33	3·8	86	+3	·851	+·015	6·3	+0·4	126	134·70	−8·70	132·36	125·94	+6·42	6·48	Mercara.	35

station, the data for that station are not utilized in calculating the provincial departures from normal.
39 and 41 are derived are incomplete.

*Mean of 11 months.
†† „ of 7 „

‡ Wind direction for 363 days.
§ „ 364 „

Table

Abstract of observations taken at 8 h.

Number of rainfall division.	Station.	Elevation of bar cistern above sea level in feet.	Pressure 8 h. in inches.							Temperature on air.											
			Mean 8 h. pressure reduced to 32°.	Departure from normal.	Mean 8 h. pressure reduced to sea level and to constant gravity at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 h. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	XI.—South India—*concld.*																				
36	Chitaldroog	2,405	27·524	0	29·873	27·679	27·243	·436	·161	73·8	87·7	+1·2	68·0	+0·8	77·9	+1·0	19·7	102·7	55·4	47·3	29·3
	Bangalore	3,021	26·944	—·004	29·893	27·099	26·683	·416	·149	70·8	85·5	+1·3	65·2	+1·1	75·4	+1·2	20·3	99·3	53·9	46·4	29·9
	Hassan	3,021	26·898	+·005	29·963	27·088	26·640	·398	·147	71·0	86·6	?	62·8	+0·6	74·2	?	23·8	100·2	46·9	53·3	33·0
	Mysore	2,518	27·439	+·001	29·902	27·585	27·214	·371	·144	72·9	87·0	+0·7	66·9	+1·2	77·0	+0·9	20·1	101·0	54·9	46·1	29·9
56	Negapatam	31	29·868	—·013	29·828	30·059	29·614	·445	·169	81·2	91·8	+1·9	77·5	+1·6	84·7	+1·8	14·3	108·4	68·5	39·9	25·0
	Cuddalore	37	29·865	+·004	29·883	30·075	29·591	·484	·188	80·2	91·0	+0·5	75·9	+1·7	83·5	+1·1	15·1	109·2	65·7	39·5	26·1
	Trichinopoly	255	29·686	+·002	29·854	29·868	29·424	·444	·171	81·3	94·7	+0·3	75·0	+1·0	84·9	+0·6	19·7	109·7	63·9	45·8	31·2
	Pudukkottai	318	29·605	...	29·567	29·796	29·389	·427	·165	80·4	93·6	...	75·0¶	...	85·0¶	...	18·1¶	108·3	66·2	42·1	28·9
	Madras	22	29·880	—·008	29·833	30·009	29·565	·533	·213	81·1	91·1	+0·2	75·7	+1·0	83·4	+0·6	15·4	111·5	61·0	50·5	27·4
	Vellore	707	29·197	...	29·350	29·500	28·900	·490	·190	78·9	93·2	...	73·0	...	83·4	...	19·7	111·8	57·8	54·0	32·6
55	Nellore	52	29·832	+·003	29·827	30·059	29·469	·570	·211	81·1	93·7	—0·6	75·5	+0·6	84·6	0	18·2	113·3	62·6	50·7	29·9
	Masulipatam	15	29·881	+·009	29·832	30·128	29·487	·641	·238	81·6	91·3	+0·7	75·9	+1·6	83·6	+1·0	15·4	117·7	61·7	52·0	29·2
54	Cuddapah	433	29·466	—·005	29·838	29·662	29·135	·527	·190	81·5	96·2	+0·7	75·3	+0·9	85·8	+0·8	20·9	115·3	57·3	58·0	33·1
	Karnool	945	29·265	—·007	29·839	29·164	28·629	·535	·190	78·6	94·4	+0·6	72·6	+2·0	83·5	+1·3	21·8	111·8	50·9	60·9	34·3
	Bellary	1,475	28·422	—·006	29·653	29·630	28·107	·523	·177	77·1	94·4	+1·4	71·9	1·4	83·2	+1·4	22·5	109·5	57·1	52·4	33·7
52	Cocanada	26	29·859	+·003	29·821	30·116	29·414	·702	·255	80·5	90·4	+1·0	75·8	+1·0	83·1	+1·0	14·6	115·0	62·0	53·0	27·8
	Waltair (Vizag.)	226	29·648	+·004	29·617	29·916	29·157	·659	·289	80·5	87·5	?	75·9	?	81·7	?	11·7	111·4	64·9	46·5	23·3
	Calingapatam	19	29·878‖	...	29·837‖	30·114	29·655	·459	·230	...	...	...	...	...	...	...	...	...	...	...	...
	Gopalpur	72	29·789	+·009	29·803	30·075	29·253	·822	·295	78·1	85·9	—0·1	74·1	+0·9	80·0	+0·4	10·8	96·2	54·0	42·2	21·9
	XII.—Hill Stations.																				
48	Pishin	...	...	...	...	...	...	...	...	...	75·0	...	45·7	...	60·4	...	29·3	103·4	16·0	87·4	47·1
	Quetta	5,502	24·621	0	24·581	24·866	24·267	·599	·267	59·4	73·2	—0·2	45·2	+0·7	59·1	+0·3	27·8	99·6	19·3	80·3	44·6
	Kalat	...	...	...	...	...	...	...	...	50·4	73·9	—0·3	30·7	+1·0	55·3	+0·1	37·1	103·2	8·3	94·9	57·5
	Chaman	4,311	25·631	+·009	25·643	25·938	25·279	·659	·294	60·9	77·6	—1·8	53·4	—1·0	65·5	+1·4	24·2	106·8	25·1	81·7	43·7
30	Leh	11,503	19·993	—·009	19·961	19·993	19·105	·888	·331	37·7	55·5	0	20·5	+0·7	43·0	+0·3	25·0	84·7	—6·1	90·8	41·6
	Srinagar	5,204	24·878	—·010	24·849	25·231	24·416	·815	·360	50·2	66·5	+0·3	45·0	+1·0	55·8	+0·6	21·5	95·3	13·1	82·2	37·9
	Gulmarg‖	8,569	21·838	...	21·806	22·015	21·608	·407	·231	57·3	66·5	...	44·9	...	55·7	...	21·5	79·6	33·2	46·4	36·4
	Sonemarg	8,764	21·783	...	21·751	22·015	21·175	·840	·287	37·2	54·2	...	30·4	...	42·3	...	23·8	80·9	—2·9	83·8	43·9
	Astor (Kashmir)†	7,965	22·559	...	22·529	22·869	21·999	·900	·542	26·0	40·0	...	22·2	...	31·1	...	17·3	57·9	3·0	54·9	42·0
	Minimarg†	9,329	21·335	...	21·303	22·059	20·361	·857	·506	19·4	38·2	...	10·9	...	24·5	...	27·3	64·8	—6·0	70·8	61·3
	Skardu	7,506	22·875	...	22·845	23·312	22·352	·960	·400	46·6	62·7	...	40·3	...	51·5	...	22·4	108·5	1·6	106·9	44·5
	Dras	10,059	20·797	...	20·765	21·108	20·224	·884	·332	33·4	50·9	...	23·6	...	37·3	...	27·3	88·0	—39·9	127·9	54·5
	Gilgit	4,890	25·118	...	25·091	24·632	24·608	1·024	·446	59·1	73·0	+0·2	53·4	+0·1	63·2	+0·2	19·6	108·2	28·1	80·1	38·3
32	Chitral	5,486	...	...	...	...	...	...	...	53·1	72·5	...	47·2	...	59·9	...	25·3	108·5	23·0	85·5	42·4
	Killa Drosh	4,700‡	...	...	...	...	...	...	...	56·4	71·5	...	42·5§	...	57·1§	...	29·0§	106·4	10·1	96·3	40·6§
	Para Chinar	6,000	24·916	...	24·383	24·683	23·545	1·138	·300	57·0	69·6	...	48·0	...	58·8	...	21·5	96·3	17·0	79·3	33·0
	Cherat	4,236	25·065	—·006	25·031	25·910	25·240	·670	·222	61·4	72·0	—1·7	56·5	—0·3	64·3	—1·0	15·5	102·9	26·0	76·9	35·5
29	Murree	6,333	23·823	—·006	23·791	24·068	23·329	·739	·232	55·6	64·2½	—2·2½	47·0	—3·8	56·1½	—2·9½	16·2	86·5	18·0	68·5	34·7
	Kailang	10,087	20·976	...	20·931	21·142	20·780	·362	·119	38·3	54·5	—0·9	31·4	—0·6	43·0	—0·7	23·0	82·7	...	...	41·6
	Peo	...	...	...	...	...	...	...	...	...	58·3	...	42·1	...	50·2	...	16·2	81·8	12·0	69·8	32·5
	Simla	7,224	23·068	—·008	23·050	23·298	22·764	·534	·235	53·6	60·2	—0·6	49·5	—0·4	54·9	—0·5	10·7	81·3	22·3	59·3	25·4
	Sarain	...	23·147	...	...	23·332	22·837	·495	·239	50·3	61·9	...	43·1	...	52·5	...	18·8	83·0	14·5	68·5	34·5
	Kalabagh‖	...	20·121	...	...	20·354	19·946	·314	·188	49·0	64·3	...	43·6	...	53·9	...	8·7	61·5	32·3	29·2	19·9
25	Chakrata	7,022	23·264	—·001	23·224	23·479	23·002	·477	·228	54·1	63·9	—0·4	49·7	+0·1	56·8	—0·2	14·1	83·3	22·0	61·3	29·2
	Ranikhet‖	6,069	24·073	—·017	24·037	24·265	23·837	·428	·264	53·2	64·2	—1·5	48·2	—1·3	56·2	—1·4	16·0	90·1	26·0	64·1	37·5

N.B.—Elevations in Italics indicate barometrical determinations.

‡ Mean of 11 months.
§ Do. 10 do.
‖ Do. 5 do.
¶ Do. 9 do.
† Do. 4 do.

Note 1.—Where a query is inserted against any reading or in the returns of any
" 2.—The data from which divisional means of the figure columns Nos. 37
" 3.—The barometric readings are not reduced to sea level in the cases of

I—*contd.*

at 241 stations in India, Burma, etc., in the year 1906—contd.

Wind Direction. Number of winds from									Wind Velocity.			Hygrometry 8 h.			Cloud.		Rainfall.						Heaviest rainfall during year.	Station.	Number of rainfall division.
Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Mean daily velocity in miles per hour, instrumental, from uncorrected.	Normal (uncorrected).	Percentage departure from normal.	Mean velocity corrected (where possible).	Mean humidity at 8 h. of year.	Departure from normal of year.	Mean vapour tension at 8 h. of year.	Departure from normal of year.	Mean cloud amount at 8 h. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.			
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
																										XI—South India—*concld.*	
24	11	14	43	24	6	78	107	48	7·8	...	...	6·6	71	+1	·592	+·016	5·0	−0·1	53	48·50	+4·50	30·40	26·33	+4·16	2·85	Chitaldroog.	36
5	8	33	57	32	22	90	99	19	8·3	5·2	+59	7·9	79	0	·595	+·015	5·4	+0·4	70	58·60	+11·40	39·87	35·06	+4·81	2·59	Bangalore.	
77	5	42	34	22	19	57	75	34	3·1	...	...	2·7	79	+3	·568	+·024	5·8	+0·2	74	68·20	+5·80	41·81	35·09	+6·72	3·18	Hassan.	
21	8	41	30	22	23	95	93	32	8·5	...	...	9·2	77	+1	·619	+·018	6·3	+1·0	56	55·90	+0·10	27 91	30·91	−3·00	2·22	Mysore.	
15	6	39	15	17	25	59	117	78	10·5	5·6	+88	9·2	74	−2	·796	−·012	4·8	−0·6	64	59·20	+5·80	72·27	55·56	+16·71	8·06	Negapatam	36
60	9	4	2	7	49	87	77	70	4·4	...	...	5·5	78	+5	·804	−·054	4·4	−0·8	61	56·30	+4·70	75·29	52·58	+17·71	9·11	Cuddalore.	
120	24	19	6	6	18	78	71	23	4·8	5·8	−17	...	74	+2	·783	+·052	4·8	−0·1	52	44·60	+7·40	56·13	32·54	+3·59	3·00	Trichinopoly.	
28	110	42	6	6	22	37	15	109	3·4	...	...	3·6	75	...	·774	...	6·4	...	60	...	...	35·76	...	...	3·35	Pudukkottai.	
24	15	13	6	11	76	81	102	37	6·7	7·1	−6	...	80	+4	·857	+·052	4·8	−0·3	58	33·70	−23·70	49·61	50·39	−0·78	4·16	Madras.	
174	16	19	31	38	4	17	21	43	3·4	...	...	3·4	75	...	·731	...	3·6	...	64	54·90	+9·10	42·23	38·47	+3·76	2·65	Vellore (*a*).	
44	16	3	8	53	71	25	65	90	7·3	...	...	...	74	−2	·774	−·035	5·8	+0·5	52	42·40	+9·60	39·49	30·73	+8·76	3·65	Nellore	35
153	28	17	4	31	35	18	25	54	8·7	7·0	+24	7·6	84	+2	·913	+·0677	5·4	+0·6	53	51·00	+2·00	36·74	40·91	−4·17	3·15	Masulipatam.	
...	2	39	42	57	6	50	108	61	...	...	...	...	68	0	·730	+·024	4·8	+0·5	51	43·70	+7·30	40·23	32·69	+7·54	6·82	Cuddapah	34
90	5	10	14	5	46	75	65	55	7·3	...	...	...	74	+3	·701	?	4·2	+0·4	53	47·60	+5·40	32·68	28·40	+4·18	2·60	Kurnool.	
45	19	6	23	33	23	37	11	68	6·7	6·5	+3	5·9	60	−2	·563	−·017	4·4	−0·3	41	34·30	+6·70	20·05	19·73	+0·32	1·75	Bellary.	
105	36	55	1	11	11	77	48	21	2·0	...	...	5·9	79	+4	·856	+·096	5·5	+0·3	62	53·90	+8·10	47·54	39·84	+7·70	2·96	Cocanada	33
24	16	77	5	2	12	122	105	2	12·4	...	...	9·3	70	−3	·751	−·016	5·9	+1·1	54	49·60	+4·40	47·05	43·54	+3·51	3·88	Waltair (Vizag.)	
2	27	14	2	...	...	...	14	38	9·0	...	...	7·6	...	...	...	...	...	...	19	...	...	21·68	...	...	2·76	Calingapatam (*b*).	
57	40	4	4	4	36	124	12	34	13·6	9·6	+42	13·3	81	0	·784	0	3·1	−1·5	44	55·20	−11·20	39·29	47·53	−8·24	4·24	Gopalpur.	
																										XII—Hill Stations.	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27	23·20	+3·80	11·74	9·98	+1·76	1·00	Pishin	48
361	6	3	4	18	16	1	5	11	1·8	4·1	−68	1·4	61	+3	·291	+·004	2·0	+0·1	26	26·80	−0·80	10·16	10·68	−0·52	0·89	Quetta.	
...	62	...	19	...	249	...	29	1	...	...	...	...	51	...	·243	...	...	...	15	19·50	−4·50	8·11	5·79	+2·32	0·93	Kalat (*c*).	
101	74	38	63	33	12	3	6	33	7·3	...	...	8·9	57	+13	·307	+·040	1·5	−0·5	17	19·60	−2·60	7·31	6·29	+1·02	0·99	Chaman (*a*).	
304	4	17	5	4	18	11	4	...	2·9	...	...	...	51	−1	·134	+·003	5·0	+0·2	6	9·30	−3·30	1·94	3·00	−1·06	0·46	Leh	30
168	16	13	63	50	14	9	24	...	2·8	...	...	2·6	85	−1	·356	+·001	4·6	+0·2	56	56·50	−0·50	26·28	24·74	+1·54	2·61	Srinagar.	
33	14	36	11	3	5	16	6	8	3·4	...	...	4·2	80	...	·389	...	3·1	...	35	...	...	14·94	...	...	3·13	Gulmarg (*d*).	
192	38	57	44	14	5	2	5	8	2·8	...	...	2·6	83	...	·207	...	5·0	...	129	...	...	81·14	...	...	7·62	Sonemarg.	
49	5	2	1	1	37	23	2	...	4·0	...	...	3·6	71	...	·105	...	7·5	...	11	...	...	4·66	...	...	0·80	Astor (Kashmir) (*e*).	
57	1	6	25	25	2	...	2	1	3·9	...	...	5·1	73	...	·092	...	7·1	...	36	...	...	14·45	...	...	2·65	Minimarg (*f*).	
233	9	25	14	11	10	20	23	5	4·2	...	...	4·2	68	...	·208	...	5·5	...	22	17·00	+5·00	9·67	10·45	−0·78	1·65	Skardu.	
327	1	5	3	4	2	12	8	2	5·0	...	...	4·0	73	...	·176	...	4·2	...	63	61·10	+1·90	25·90	24·57	+1·33	2·20	Dras (*g*).	
304	1	4	7	4	1	14	24	6	2·4	...	...	2·2	47	−4	·258	−·011	5·4	+0·6	17	14·00	+3·00	5·32	4·80	+0·52	0·97	Gilgit.	
348	...	6	14	4	19	1	1	...	3·5	...	...	3·1	78	...	·399	...	2·0	...	37	...	...	14·80	...	...	1·50	Chitral (*a*).	32
104	18	34	47	22	8	30	38	48	...	...	...	...	69	...	·322	...	2·9	...	45	...	...	20·73	...	...	2·25	Killa Drosh (*h*).	
350	3	...	2	1	2	...	5	2	3·9	...	...	3·6	62	...	·310	...	4·2	...	76	56·20	+17·80	34·18	25·17	+9·01	2·98	Para Chinar.	
64	131	16	2	19	53	14	8	58	10·6	...	...	10·3	67	+14	·389	+·070	3·6	+0·5	48	...	...	29·51	24·43	+5·08	4·32	Cherat	
223	26	4	17	19	60	4	3	9	5·1	6·2	−25	5·5	60	+5	·290	+·027	3·9	+0·1	109	77·30	+31·70	74·68	55·85	+18·83	4·50	Murree.	29
...	13	18	46	85	36	30	65	22	1·1	...	...	...	66	...	·179	...	2·9	...	37	...	...	10·44	22·84	−3·40	3·40	Kailang.	
274	3	1	2	25	12	15	18	5	...	...	...	...	...	...	...	...	4·3	...	26	...	...	8·84	18·56	−9·72	0·89	Poo (*i*).	
73	114	20	4	22	91	8	6	27	4·4	2·2	+100	4·2	59	+1	·264	+·004	3·8	−0·4	102	90·10	+21·90	101·69	63·59	+38·10	6·63	Simla.	
263	5	8	3	1	46	26	6	2	2·0	...	...	2·0	66	...	·263	...	4·2	...	94	...	...	89·16	...	...	7·26	Sarnia.	
35	37	1	5	17	25	2	6	25	10·6	...	...	8·7	79	...	·286	...	6·0	...	67	...	...	32·33	...	...	6·52	Kalabagh.	
161	110	8	1	14	47	1	1	2	5·4	5·1	+6	6·5	67	+3	·299	+·008	3·5	+0·1	101	68·00	+13·00	94·67	70·71	+23·96	4·66	Chakrata	25
84	6	13	5	3	1	10	12	8	2·7	3·1	−13	3·1	55	...	·221	...	2·9	...	18	20·50	− 2·50	8·88	10·34	−1·41	2·23	Banikhet (*f*).	

hill station, the data for that station are not utilized in calculating the provincial departures from normal.
39 and 41 are derived are incomplete.
hill or plateau stations the elevations ofwhich exceed 3,200 feet.

(*a*) wind direction of 363 days
(*b*) " " 92 "
(*c*) " " 351 "
(*d*) " " 137 "
(*e*) " " 120 "
(*f*) " " 116 "
(*g*) " " 364 "
(*h*) " " 347 "
(*i*) " " 355 "
(*j*) " " 151 "

Table

Abstract of observations taken at 8 h. at

Number of rainfall division.	Station.	Elevation of bar cistern above sea level in feet.	Pressure 8 h. in inches. Mean 8 h. pressure reduced to 32°.	Departure from normal.	Mean 8 h. pressure reduced to sea level and to constant gravity at 45° lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Temperature of air. Mean of 8 h. temperature of year	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	XII.—Hill Stations—concld.																				
25	Muktesar	7,556	22·846	...	22·765	23·059	22·602	·547	·231	53·7	63·2	...	48·9	...	56·1	...	14·3	84·8	20·9	63·7	31·2
13	Tatung	10,490	...	...	..	...	...	..	...	...	54·7	...	36·1	...	45·4	...	18·6	69·1	15·1	54·0	30·9
	Darjeeling	7,376	23·007	0	22·962	23·406	22·788	·410	·218	53·1	59·6	+1·2	47·7	+0·2	53·7	+0·2	11·9	74·7	28·0	46·7	23·5
	Pharijong*	...	17·983	...	...	18·067	17·713	·354	·163	37·0	54·3	...	25·6	...	40·0	...	28·7	79·1	−17·0	96·1	40·9
	Gyantsee§	...	18·557	...	...	18·679	18·330	·349	·209	36·8	59·5	..	28·3	...	43·9	...	31·2	76·3	4·5	73·8	46·4
8	Shillong	4,920	25·117	...	25·069	25·334	24·945	·389	·214	59·8	70·0	...	53·2	...	61·6	...	16·8	89·6	31·0	58·6	30·1
	Cherra Poonjee	4,309	25·573	...	25·528	25·889	25·372	·516	·226	62·0	68·7	...	57·4	...	63·1	...	11·3	88·7	39·0	44·7	22·2
50	Mount Abu	3,945	26·028	0	25·978	26·263	25·669	·594	·235	66·8	74·0	−2·1	61·7	−0·4	67·9	−1·2	12·4	96·2	41·1	55·1	24·8
42	Pachmarhi	3,528	26·425	−·002	26·372	26·648	26·264	·384	·243	65·0	80·1	+0·6	50·3	−0·9	70·2	−0·2	19·8	102·7	33·5	69·4	34·3
34	Wellington§	6,200	24·290	+·009	24·223	24·397	23·186	·211	·123	62·3	74·8	+2·0	52·5	+0·9	63·6	+1·5	22·3	83·2	39·7	43·5	32·4
	Ootacamund	7,327	23·035	...	22·972	23·137	22·887	·250	·121	57·3	65·5	...	49·4	...	57·5	...	16·0	75·0	35·6	39·4	26·1
67	Kodaikanal	7,088	22·833	...	22·773	22·946	22·639	·307	·121	57·2	65·4	...	51·8	...	57·0	...	13·6	77·2	41·9	35·4	23·0
	XIII.—Extra India.																				
	Trincomalee	12	29·999	P.	29·937	30·072	29·676	·396	·155	79·5	89·2	+0·6	76·8	+0·4	83·0	+0·5	12·4	97·5	68·0	28·5	19·5
	Colombo	40	29·895	−·010	29·861	30·035	29·755	·280	·135	79·9	86·9	−0·1	76·3	+0·8	81·6	+0·4	10·6	93·5	69·0	24·5	17·0
	Meshed	3,104	27·469	...	...	28·050	26·650	1·400	·543	57·7	69·6		46·7	+0·9	58·7	...	19·9	96·4	15·0	81·4	41·4
	Teheran (b)†	4,002	25·758	...	...	26·500	25·400	1·100	·398	64·6	81·6	+1·1	50·1	−1·0	68·9	+0·1	25·5	100·6	29·7	79·9	43·0
	Ispahan (b)	5,317	24·750	...	...	24·870	23·850	·620	·349	52·8	72·6	−1·5	46·8	+1·6	59·7	+0·1	25·9	105·5	18·2	87·3	43·8
	Bushire	14	29·960	−·001	29·833	30·234	29·344	·890	·319	72·5	80·7	−1·5	68·4	−0·2	74·6	−0·8	12·4	101·0	38·9	62·1	28·8
	Bahrein	18	29·913	...	29·884	30·325	29·391	·934	·320	79·2	88·2		72·4		77·8	...	10·8	107·8	49·6	58·2	24·4
	Jask	13	29·971	+·005	29·841	30·286	29·279	1·007	·309	78·0	86·8	−0·8	73·6	+0·2	79·7	−0·3	12·1	103·7	54·3	49·4	23·8
	Muscat	20	29·947†	−·001†	29·815†	30·240	29·395	·845	·274	81·0	88·5	4·5·2	77·6	−0·8	83·2	+2·3	10·7	110·4	61·6	48·6	23·7
	Baghdad	230	29·774	−·018	29·975	30·230	29·500	·730	·424	66·4	87·0	+1·9	50·8	+0·4	73·4	+1·2	27·1	118·6	28·6	90·0	44·3
	Busrah	25	29·895	...	...	30·332	29·378	·954	·336	...	82·3		63·3		72·8	...	19·0	108·8	36·7	72·1	34·6
	Beirut ‖	...	...	...	29·990	...	...	...	...	71·0	77·3	...	65·1	...	71·2	...	12·1	89·8	47·1	42·7	26·5
	Aden	94	29·843	+·017	29·809	30·105	29·438	·677	·204	81·7	87·7	−0·6	76·6‡	−1·9	80·8‡	0‡	8·2‡	96·8	68·4	30·4	17·4
	Perim	201	29·713	+·024	29·843	29·943	29·459	·484	·113	83·7	90·3	+0·5	80·1	+1·0	85·2	+0·3	10·3	101·3	72·4	28·9	15·6
	Kabul	...	24·262†	...	24·233†	24·533	23·783	·752	·260	53·4	72·2	+0·3	41·9	−0·6	57·1	−0·1	30·3	106·9	4·9	102·0	50·3
	Kashgar	4,235	25·575	...	...	26·100	25·160	·940	·451	50·7	67·8	+1·9	43·5	+0·2	55·6	+1·0	24·3	102·5	3·3	99·2	46·7
	Amini Divi	13	29·914	+·003¶	29·855¶	30·054	29·733	·321	·148	82·8	88·0	+1·7	77·5	+0·4	83·7	+1·1	10·5	97·1	69·0	28·1	19·3
	Minicoy	7	29·946	...	29·879	30·078	29·760	·316	·135	82·4	86·7	+0·2	...	...	...	...	...	93·4	...	...	...
	Zanzibar	72	30·003	+·010	30·001	30·186	29·801	·385	·137	78·3	83·7	0	76·0	−0·5	79·8	−0·2	7·7	91·6	69·3	21·7	14·7
	Do. Dunga†	154	29·910	...	29·993	30·063	29·664	·379	·139	76·5	85·5	...	73·1†	...	79·4†	...	12·5	98·4	63·0	25·4	18·3†
	Penang (a)	20	29·926	...	29·870	29·967	29·867	·070	·052	81·9	89·0	...	74·4	...	81·7	...	14·6	94·0	68·0	26·0	19·9
	Singapore (a)*	10	29·947	...	29·879	30·026	29·838	·198	·118	82·9	88·1	...	74·8	...	81·5	...	13·3	93·6	70·9	22·7	19·9

N. B.—Elevations in Italics indicate barometrical determinations.
(a) 9 hours' observations.
(b) Aneroid uncorrected.

* Mean of 10 months.
† ,, 11 ,,
‡ ,, 8 ,,
§ ,, 5 ,,
‖ ,, 6 ,,
¶ ,, 9 ,,

Notes:—1.—When a query is inserted against any reading or in the returns of any
,, 2.—The data from which divisional means of the figure columns Nos. 37,
,, 3.—The barometric readings are not reduced to sea level in the cases of hill

I—*concld.*

241 stations in India, Burma, etc., in the year 1906—concld.

Wind-Direction. Number of winds from									Wind Velocity.				Hygrometry 8 h.				Cloud.		Rainfall.						Station.	Number rainfall divi- sions.
Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Mean daily velocity in miles per hour instrumental uncorrected.	Normal (uncorrected).	Percentage departure from normal.	Mean velocity corrected where possible).	Mean humidity at 8 h. of year.	Departure from normal of year.	Mean vapour tension at 8 h. of year.	Departure from normal of year.	Mean cloud amount at 8 h. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.		
23	24	25	26	27	28	29	30	31	33	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
																										XII.—Hill Stations.—concld.	
65	11	20	57	32	15	18	112	8	8·0	...	...	8·3	64	...	·232	...	4·6	...	81	...	...	51·96	...	...	2·62	Muktesar (*c*).	25
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	117	125·25	−8·25	45·86	49·48	−3·62	1·56	Yatung.	13
95	16	63	39	46	10	35	35	21	4·7	3·7	+27	4·3	83	− 4	·360	+·003	5·7	−0·3	114	121·09	−7·09	113·36	124·38	−11·02	4·98	Darjeeling.	
110	18	3	1	35	48	6	27	20	3·4	...	...	7·9	86	...	·229	...	2·3	...	42	...	...	10·91	...	...	1·15	Pharijong (*m*).	
...	1	1	...	49	66	31	2	4	3·0	...	...	3·0	79	...	·176	...	...	...	17	...	...	8·37	...	...	1·25	Gyantsee.	
274	1	2	3	11	24	49	1	...	2·0	...	...	2·1	75	...	·410	...	4·7	...	137	120·40	+16·60	98·99	79·72	+19·27	4·90	Shillong.	8
114	6	89	13	11	10	56	63	3	5·5	...	...	4·8	82	...	·475	...	5·7	...	168	161·70	+6·30	467·30	438·85	+49·45	10·21	Cherra Poonjee.	
40	42	43	10	9	13	125	38	36	8·6	7·	−23	8·7	53	− 2	·357	−·016	3·6	+0·3	78	54·20	+23·80	61·63	61·73	+20·09	7·84	Mount Abu.	50
87	5	21	28	13	3	62	73	68	6·4	5·2	+23	5·8	63	+ 3	·455	+·021	3·7	−0·2	73	79·20	−6·20	78·98	76·21	+2·77	4·88	Pachmarhi.	42
133	3	10	4	2	...	...	...	...	2·5	...	...	2·6	69	...	·386	...	2·2	...	18	21·00	−3·00	10·29	11·02	+4·37	3·35	Wellington (*d*).	34
76	10	34	78	51	13	18	64	21	5·1	...	...	4·8	62	...	·291	...	5·4	...	111	90·70	+20·30	60·82	46·60	+14·22	2·47	Ootacamund.	
3	44	54	54	32	26	10	49	90	12·5	...	...	...	72	...	·333	...	4·9	...	119	99·40	+19·60	67·62	64·82	+2·70	2·91	Kodaikanal (*e*).	57
																										XIII. Extra India.	
133	5	15	...	...	5	195	9	3	5·4	...	...	...	84	+3	·851	−·013	2·8	−0·5	82	...	...	70·38	62·37	+8·01	7·10	Trincomalee (*f*).	
...	34	49	35	55	19	94	72	8	8·0	7·6	+5	...	84	+7	·866	+·021	5·9	+0·8	97	...	...	71·19	89·59	−18·40	3·65	Colombo.	
...	...	...	...	...	...	...	...	...	...	...	...	...	63	...	·307	...	‡3·5	?	28	...	...	14·19	8·29	+5·90	1·40	Meshed.	
83	63	39	8	1	25	13	8	4	2·7	...	...	2·4	73	...	·499	...	4·1	...	21	...	...	7·96	4·58	+3·38	0·68	Teheran (*g*).	
368	14	1	5	3	5	13	29	7	2·0	...	...	2·6	64	0	·273	−·046	2·3	+0·2	21	...	...	7·55	3·64	+3·91	1·00	Ispahan.	
15	46	62	43	51	22	13	25	86	9·7	8·4	+15	10·7	79	+12	·668	+·060	2·7	...	20	...	...	9·27	12·11	−2·84	1·89	Bushire (*h*).	
3	37	17	18	23	17	20	101	115	7·0	...	...	6·1	71	...	·739	...	0·9	...	8	...	...	2·93	...	...	0·75	Bahrein (*i*).	
57	22	71	73	69	1	3	2	71	11·9	...	...	11·1	73	+2	·722	−·005	4·2	+2·6	11	...	...	4·73	4·46	+0·27	0·79	Jask (*h*).	
310	14	2	4	45	1	1	6	78	4·1	...	...	4·3	70	+1	·750	+·008	2·9	+1·3	13	...	...	5·20	4·43	+0·77	1·39	Muscat (*j*).	
172	61	2	8	10	17	3	25	67	4·1	3·7	+11	5·4	54	−5	·332	−·077	1·9	+0·7	16	...	...	4·63	9·04	−4·41	0·65	Baghdad.	
67	229	...	5	...	58	..	5	3	...	...	...	...	...	...	...	...	...	...	22	...	...	8·10	...	...	1·38	Busrah.	
20	3	7	9	4	14	28	5	1	...	...	...	...	63	...	·492	...	3·4	...	12	...	...	10·20	...	...	3·62	Beirut (*k*).	
29	13	115	69	64	11	42	14	9	10·0	11·5	−13	8·8	76	+3	·627	+·046	4·1	−0·1	5	...	...	1·23	2·97	−1·75	0·60	Aden.	
...	10	9	205	28	7	6	73	26	19·02	...	...	17·91	71	−3	·526	+·001	3·2	−0·8	6	...	...	1·05	1·02	−0·27	0·43	Perim (*f*).	
...	37	116	83	24	35	21	20	39	...	...	...	...	61	...	·265	...	2·1	?	31	...	...	12·03	11·53	+0·55	1·05	Kabul.	
207	7	2	5	2	5	1	2	41	2·4	...	...	2·1	...	...	...	...	2·6	−1·6	6	...	...	1·83	3·99	−2·16	0·40	Kashgar (*e*).	
60	76	61	3	6	...	6	39	93	...	...	...	...	77	?	·960	?	5·4	?	81	...	...	59·45	48·41	+11·04	5·22	Amini Divi.	
...	107	35	7	7	5	28	33	93	7·3	...	...	7·8	78	−1	·957	+·009	4·7	+0·1	99	...	...	71·32	57·48	+13·84	4·22	Minicoy.	
83	26	34	17	48	92	104	9	5	6·1	...	...	5·7	85	+2	·821	+·004	5·8	−0·1	106	...	...	92·94	56·04	+37·90	3·28	Zanzibar (*f*).	
165	4	27	11	23	16	50	7	4	4·9	...	...	4·8	80	...	·827	...	6·4	...	107	...	...	98·26	...	...	4·91	Do. Dunga. (*l*).	
3	72	34	86	10	63	9	1	86	9·4	...	...	...	...	...	...	...	2·1	...	151	...	...	112·07	...	...	4·66	Penang (*a*) (*f*).	
1	18	84	20	34	25	54	22	46	6·5	...	...	...	...	...	...	...	5·0	...	133	...	...	112·21	...	...	3·09	Singapore (*a*).	

tation, the data for that station are not utilized in calculating the provincial departures from normal.
9 and 41 are derived are incomplete.
or plateau stations the elevations of which exceed 3,300 feet.

† Mean of 11 months.
‡ „ 9 „

(*c*) Wind direction of 258 days.
(*d*) do. do. 141 „
(*e*) do. do. 363 „
(*f*) do. do. 364 „
(*g*) do. do. 224 „
(*h*) do. do. 363 „
(*i*) do. do. 351 „
(*j*) do. do. 361 „
(*k*) do. do. 91 „
(*l*) do. do. 307 „
(*m*) do. do. 267 „

(*a*) 9 hour observations.

TABLE II.—Abstract of Observations recorded at 10 h. and 16 h. at 64 stations in India, Burma, etc., in the year 1906.

Table

Abstract of Observations recorded at 10 h. and 16 h.

Meteorological Province.	Station.	Elevation of bar-cistern above sea-level in feet.	Pressure.						Temperature of Air.									
			Mean of 10 h.	Mean of 16 h.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to S. L. and gravity 45° Lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean ^{0} h.	Mean 16 h.	Mean of daily means.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Burma Coast and Bay Islands.	Port Blair	61	29·868	29·771	·097	29·821	+·005	29·812	87·5	77·3	10·2	98·0	71·0	27·0	84·6	85·2	81·3	+0·2
	Rangoon	57	·885	·765	·120	·827	—·001	·815	90·2	74·4	15·9	103·0	62·8	41·1	85·0	87·3	80·4	+1·2
	Diamond Island	41	·879	·776	·102	·820	—·007	·804	85·3	76·6	8·7	92·9	70·0	22·9	82·7	82·8	80·7	+0·6
	Cocos Island*	119	·837	·761	·106	·844	...	·836	84·7	75·5	9·2	91·1	70·6	20·5	80·9	81·9	79·0	...
	Akyab	20	·889	·782	·107	·835	—·001	·709	85·7	72·8	12·9	97·0	54·1	43·3	80·4	83·5	78·9	0
Bengal and Orissa	Chittagong	37	·905	·697	·109	·750	—·005	·785	84·5	69·6	14·9	91·7	49·0	42·7	79·4	81·6	76·3	—0·1
	Calcutta (Alipore)	21	·845	·733	·113	·788	+·001	·755	86·9	71·3	15·6	105·8	46·3	59·5	81·4	84·7	78·6	+0·6
	Saugor Island	25	·845	·737	·108	·786	+·005	·757	86·5	74·0	12·5	97·7	47·4	50·3	82·0	83·6	79·1	+0·6
	False Point	21	·869	·752	·107	·802	+·003	·785	85·8	72·7	13·1	97·5	47·1	50·4	82·7	82·8	78·1	+0·3
Gangetic Plain and Chota Nagpur.	Hazaribagh	2,007	27·837	27·743	·094	27·788	—·002	·737	84·5	66·2	18·3	105·6	42·2	64·4	78·4	81·2	74·5	+0·2
	Allahabad	309	29·532	29·415	·117	29·469	—·007	·731	90·4	67·1	23·3	115·2	36·6	78·6	82·3	86·4	77·5	+0·2
Upper Gun-Himalayas	Dehra Dun	2,233	27·613	27·526	·087	27·562	—·009	·760	81·4	60·7	20·7	106·5	35·1	71·4	73·5	77·7	20·2	0
	Roorkee	899	28·932	28·829	·103	28·874	—·002	·744	85·3	62·4	22·9	112·2	32·3	79·9	76·8	83·0	72·5	—1·0
	Lahore	702	29·115	29·026	·089	29·063	—·008	·735	86·8	63·6	25·2	117·1	33·1	84·0	78·9	86·3	75·1	+0·4
	Ludhiana	812	·003	28·914	·089	28·951	—·010	·736	86·8	64·6	22·2	114·6	35·0	79·6	76·9	84·6	74·4	—0·3
Indus Valley and N.W. Rajputana.	Peshawar	1,110	28·789	28·641	·099	28·682	—·009	·765	84·4	60·8	23·6	115·0	30·1	84·9	76·2	81·8	71·5	+0·1
	Jacobabad	186	29·656	29·546	·110	29·599	+·013	·745	95·5	66·6	28·9	122·8	33·0	89·8	85·5	92·3	80·1	+0·7
	Kurrachee	30	·859	·764	·095	·809	+·009	·790	86·0	70·5	17·5	112·5	46·0	66·5	82·5	84·4	78·3	+0·
E. Rajputana, C. India and Gwalior.	Jaipur	1,431	28·439	28·335	·104	28·381	+·004	·761	90·8	68·3	24·5	114·7	34·7	80·0	82·2	86·4	77·4	+0·3
	Udaipur	1,925?	27·964	27·862	·102	27·910	...	·776	87·5	64·5	23·0	110·8	37·6	73·2	80·1	85·1	75·8	...
	Deesa	466	29·416	29·301	·115	29·355	+·005	·770	93·4	65·8	27·6	117·0	40·8	77·1	84·1	91·6	79·4	—0·3
	Jamnagar	61	·837	·734	·103	·782	...	·788	89·1	68·1	21·0	107·3	44·4	62·8	82·5	86·2	77·5	...
Deccan	Belgaum	2,539	27·287	27·285	·102	27·335	+·006	·781	84·7	64·0	20·7	102·1	45·7	56·4	77·3	81·1	73·9	+0·1
	Sholapur	1,590	28·311	28·176	·135	28·245	—·004	·760	93·6	69·0	24·6	110·3	51·6	58·7	83·9	91·0	80·1	+0·6
	Akola	990	·943	·809	·134	·875	—·007	·743	93·4	67·4	26·0	115·3	40·5	74·8	83·9	91·2	79·5	+0·4
	Buldana	2,132	27·778	27·664	·114	27·717	—·010	·768	87·7	67·9	19·8	109·2	40·8	68·7	80·6	85·6	76·7	0
	Khandwa	1,044	28·883	28·703	·130	28·767	—·002	·761	91·4	66·8	24·6	114·7	38·4	76·3	82·1	89·4	78·6	—0·2
	Nagpur (Sanitary Commr.'s Office), Hyderabad (Deccan).	1,013	·852	·723	·129	·787	+·007	·755	91·7	69·0	22·7	115·5	43·1	72·4	83·2	89·2	79·4	—0·2
		1,690	·207	·087	·120	·147	+·001	·765	90·7	70·5	20·2	109·3	52·9	56·4	82·7	88·0	79·6	+1
West Coast	Bombay	37	29·885	29·785	·100	29·832	+·005	·809	86·2	74·7	11·5	94·0	60·1	33·9	80·6	82·5	79·4	+0·1
	Karwar	44	·899	·806	·093	·850	+·010	·829	86·0	72·5	13·5	92·5	59·6	33·0	80·7	83·7	78·1	—0·2
South India	Periyakulam	946	28·971	28·839	·132	28·905	...	·777	92·2	70·9	21·3	104·2	50·3	44·9	82·6	88·4	81·4	...
	Salem	940	29·002	28·864	·138	28·941	—·006	·809	93·9	73·0	20·9	107·7	57·3	50·4	84·4	90·8	81·9	+1·6
	Chitaldroog	2,405	27·530	27·413	·117	27·475	+·001	·761	87·7	68·0	19·7	102·8	55·2	47·6	79·2	85·1	76·5	+1·0
	Bangalore	3,021	26·951	26·836	·115	26·897	—·004	·788	85·5	65·2	20·3	99·1	52·7	46·4	77·2	82·8	74·0	+1·3
	Hassan	3,091	·897	·790	·107	·947	+·012	·805	86·6	62·8	23·8	100·3	46·9	53·4	79·1	81·3	72·8	+1·7
	Mysore	2,519	27·444	27·331	·113	27·386	—·004	·802	87·0	66·9	20·1	100·9	54·9	46·0	76·7	84·2	75·6	+0·9
	Pudukkottai	...	29·907	29·474	·133	29·541	...	·789	93·6	76·1	17·5	103·3	66·0	41·4	85·4	90 5	85·1	...
	Madras	23	·898	·774	·114	·836	—·008	·789	91·0	75·8	15·2	111·5	63·4	48·1	86·4	95·1	83·3	+ 0·5
	Bellary	1,475	28·430	28·306	·134	28·365	—·017	·767	94·4	71·9	23·5	109·5	56·9	52·6	84·4	90·1	82·0	+1·3
	Waltair	226	29 743	29·549	·193	29·602	+·005	·769	87·5	75·9	11·6	111·2	65·1	46·1	84·2	93·7	80·6	+0·2

* Mean of 3 months. (d) Mean of 9 months. *N. B.*—Elevations in italics indicate barometrical determinations.

II.

at 64 stations in India, Burma, etc., in the year 1906.

Temperature, Wet-bulb.				Vapour Tension.					Humidity.					Cloud.				Rainfall.		Station.	Meteorological Provinces.
Mean minimum.	Mean 10 h.	Mean 16 h.	Mean of three previous columns.	From minimum.	Mean 10 h.	Mean 16 h.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 h.	Mean 16 h.	Mean of daily means.	Departure from normal.	Mean 10 h.	Mean 16 h.	Mean of two previous columns.	Departure from normal.	Total rainfall for the year.	Heaviest rainfall during the year.		
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
74·6	78·4	78·5	77·2	·627	·901	·890	·889	—·013	68	77	74	82	—2	5·5	6·5	6·0	+0·2	99·78	7·29	Port Blair	Burma Coast and Bay Island
72·3	76·0	76·3	74·9	·777	·802	·766	·782	+·004	80	69	61	78	—3	5·1	5·4	5·3	+0·1	66·10	9·05	Rangoon.	
72·3	76·7	76·6	75·2	·737	·849	·837	·821	—·001	80	76	74	79	—2	4·2	4·6	4·4	—0·6	113·59	8·15	Diamond Island.	
70·2	73·7	74·2	72·7	·673	·741	·746	·743	...	76	70	68	75	...	2·6	2·6	2·6	...	0	0	Cocos Island*.	
...	75·7	76·7	...	...	·843	·839	...	...	...	·80	72	...	...	4·6	4·5	4·6	—0·2	176·85	8·20	Akyab.	
68·0	73·3	74·4	72·1	·691	·778	·770	·755	—·001	92	76	70	81	0	4·8	4·5	4·7	—0·2	111·49	9·71	Chittagong	Bengal and Orissa.
69·1	74·2	74·5	72·6	·719	·779	·738	·758	+·014	89	70	61	76	0	4·9	5·1	5·0	+0·4	57·19	3·18	Calcutta (Alipore)	
71·0	76·3	76·7	74·7	·758	·857	·852	·834	+·011	87	76	72	80	—1	5·7	5·2	5·5	+0·2	45·98	3·23	Saugor Island.	
71·2	75·8	75·9	74·3	·773	·824	·823	·816	+·005	93	72	72	80	—1	5·6	5·8	5·7	+0·8	40·17	3·58	False Point.	
61·0	66·0	66·7	64·5	·504	·503	·490	·512	+·015	75	52	48	61	+3	4·4	4·9	4·7	—0·2	61·86	2·52	Hazaribagh	Gangetic Plain and Chota Nagpur.
62·6	68·4	70·0	67·0	·557	·543	·516	·550	—·018	79	49	40	59	—2	3·4	3·7	3·6	+0·1	27·77	3·31	Allahabad.	
56·5	62·9	64·2	64·2	·440	·472	·459	·436	—·001	77	57	49	64	0	3·8	4·5	4·2	+0·2	81·30	7·07	Dehra Dun	Upper Sub-Himalayas.
58·6	65·8	67·5	64·0	·491	·525	·497	·513	+·013	82	57	45	61	+4	2·6	2·3	2·6	—0·6	57·99	5·86	Roorkee.	
59·4	67·8	70·2	65·8	·507	·562	·565	·560	+·070	80	57	45	63	+6	2·2	2·4	2·3	—0·5	20·64	4·43	Lahore.	
59·4	66·1	67·1	64·2	·495	·541	·478	·509	+·003	75	57	39	60	+1	2·2	2·4	2·3	—1·1	26·50	1·92	Ludhiana.	
55·7	62·7	64·8	61·4	·433	·480	·443	·452	+·028	73	51	40	57	+2	2·6	4·0	3·3	+0·1	11·56	1·59	Peshawar	Indus Valley and N.-W. Rajputana.
60·5	70·1	71·8	67·4	·503	·580	·546	·553	+·073	70	45	35	53	+6	1·0	1·2	1·1	—0·8	5·57	1·01	Jacobabad.	
66·3	72·1	73·9	70·7	·633	·683	·722	·704	+·007	78	59	59	70	—1	3·8	3·5	3·7	+0·5	6·47	1·22	Karrachee.	
58·1	65·4	65·5	63·3	·426	·449	·413	·434	—·031	60	40	30	46	—6	3·0	4·0	3·5	—0·1	13·02	1·80	Jaipur	E. Rajputana, C. India and Gujarat.
59·0	66·2	66·6	64·6	·462	·501	·516	·497	...	71	48	44	55	...	3·1	3·6	3·4	...	25·82	3·20	Udaipur.	
60·5	68·3	69·5	66·1	·509	·599	·447	·491	+·014	71	43	32	49	+2	3·2	3·1	3·2	—0·1	23·89	2·79	Deesa.	
63·8	70·1	70·3	68·1	·577	·600	·555	·593	...	77	52	44	61	...	2·0	1·9	2·0	...	24·05	2·93	Jamnagar.	
61·5	68·1	68·0	65·2	·526	·574	·520	·533	0	86	56	53	69	+1	4·6	4·8	4·7	+0·1	47·56	3·30	Belgaum.	Deccan.
60·9	67·9	69·7	66·1	·456	·496	·467	·484	—·012	62	44	35	49	—2	4·2	5·7	5·0	+0·2	19·65	1·92	Sholapur.	
60·5	69·7	71·6	67·2	·472	·569	·528	·529	+·031	66	49	38	53	+1	3·9	4·5	4·2	+0·4	37·10	6·08	Akola.	
59·8	68·3	67·4	64·5	·437	·489	·463	·434	+·010	62	47	40	52	—1	4·0	4·3	4·2	0	33·41	5·20	Buldana.	
59·3	67·1	68·7	65·0	·447	·499	·463	·476	—·015	64	46	36	51	—2	3·3	3·6	3·5	0	44·85	6·46	Khandwa.	
62·1	68·9	70·4	67·1	·499	·551	·527	·532	0	69	50	42	56	+1	3·4	4·6	4·0	—0·5	54·36	6·37	Nagpur (Sanitary Commr.'s Office).	
64·6	69·7	71·1	68·5	·550	·573	·558	·568	—·012	74	53	45	60	—1	4·3	5·3	4·8	+0·3	33·45	2·38	Hyderabad (Deccan).	
70·7	74·0	75·1	73·3	·712	·764	·785	·772	—·020	81	72	70	77	—1	3·8	3·7	3·8	0	56·30	4·69	Bombay	West Coast.
70·1	74·2	75·9	73·4	·714	·767	·792	·776	—·002	88	73	69	80	0	2·8	3·3	3·1	—0·6	93·94	4·50	Karwar.	
68·0	72·7	73·3	71·3	·646 (a)	·744 (a)	·629 (a)	·643 (a)	... (a)	65 (a)	58 (a)	48 (a)	64 (a)	... (a)	4·1	6·2	5·2	...	43·28	5·70	Periyakulam	South India.
70·7	76·9	80·6	76·1	·709	·808	·883	·800	+·106	89	70	63	77	+6	4·9	6·3	5·6	+0·7	33·86	1·85	Salem.	
63·3	69·6	69·2	67·0	·531	·571	·521	·550	+·019	77	58	46	63	+2	4·1	4·9	4·7	—0·4	30·49	2·85	Chitaldroog.	
62·5	67·6	67·7	65·9	·540	·570	·507	·543	+·007	86	62	49	66	0	5·0	5·7	5·4	...	38·87	2·59	Bangalore.	
61·3	67·8	67·8	65·6	·535	·580	·530	·551	+·029	92	59	53	70	+1	5·9	6·6	6·3	+0·1	41·81	3·18	Hassan.	
64·2	68·8	69·1	67·4	·572 (d)	·585 (d)	·537 (d)	·571 (d)	+·014 (d)	88 (d)	60 (d)	48 (d)	67 (d)	+1	6·5	6·9	6·7	+0·6	27·94	2·26	Mysore.	
71·1	74·5	75·4	73·6	·724	·711	·679	·713	...	81	59	50	61	...	6·2	6·3	6·3	...	37·86	3·35	Pudukkottai.	
73·5 (a)	77·9	78·4	76·6 (a)	·806 (a)	·842	·874 (a)	·859 (a)	+·046 (a)	93 (a)	68	70	79 (a)	+2 (a)	5·1	4·9	5·0	0	40·61	4·18	Madras.	
65·0	69·4	69·6	68·2	·535	·539	·475	·523	—·027	67	47	36	51	—2	4·3	5·0	4·7	—0·8	20·65	1·75	Bellary.	
70·6	74·6	75·2	73·5	·686	·739	·771	·749	—·012	76	63	66	71	+1	5·5	6·0	5·8	+1·4	47·05	5·70	Waltair.	

(a) Mean of 11 months. (d) Mean of 9 months. * Mean of 3 months.

Table

Abstract of Observations recorded at 10 h. and 16 h.

Meteorological Province.	Station.	Elevation of bar-ometer above sea-level in feet.	Pressure.						Temperature of Air.									
			Mean of 10 h.	Mean of 16 h.	Mean daily range.	Mean of daily mean pressure.	Departure from normal.	Mean reduced to g, L, and gravity 45° Lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 h.	Mean 16 h.	Mean of daily means.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Hill Station, Baluchistan.	Quetta	5,502	24·631	24·556	·075	24·586	—·001	24·546	73·1	45·4	27·7	99·5	19·4	80·1	65·2	69·6	59·0	+0·3
Hill Stations, Northern India.	Leh	11,503	19·694	19·659	·035	19·647	—·016	19·615	55·5	30·5	25·0	84·5	— 6·1	90·6	45·6	52·3	41·4	+0·4
	Srinagar	5,204	24·891	24·808	·086	24·849	—·009	24·819	66·5	45·0	21·5	95·3	13·3	82·0	55·9	64·4	54·1	+0·8
	Sarain	...	23·156	23·099	·057	23·111	...	...	61·9	43·2	18·7	83·0	14·5	68·5	56·4	65·3	52·3	...
	Kalabagh*	...	20·139	20·098	·041	20·115	...	...	54·3	45·6	8·7	61·5	32·3	29·2	50·9	51·5	49·6	...
	Simla (Ridge)	7,224	23·110	23·057	·053	23·076	—·007	23·038	60·2	49·6	10·6	81·6	22·3	59·3	56·0	57·6	54·7	—0·5
	Chakrata	7,022	·278	·231	·047	·246	—·006	·206	63·9	49·7	14·2	83·3	23·0	61·3	53·5	* 58·7	50·5	—0·2
	Ranikhet*	6,069	24·103	24·038	·065	24·063	...	24·021	64·5	48·5	16·0	89·9	20·1	69·8	58·7	60·2	56·5	...
	Muktesar	7,600	22·631	22·770	·061	22·793	...	22·751	63·1	49·0	14·1	84·6	20·9	63·7	57·0	59·5	55·8	...
	Katmandu	4,388	25·624	25·520	·104	25·569	+·004	25·523	77·4	53·6	23·8	95·4	28·2	67·2	67·0	73·6	65·2	+0·6
	Darjeeling	7,376	23·006	22·967	·039	22·984	—·007	22·938	59·7	47·7	12·0	74·8	29·2	46·6	56·0	57·6	53·6	+0·9
Hill Stations, Central India.	Mount Abu	3,945	26·045	25·976	·069	26·005	—·003	25·956	74·1	61·6	12·5	96·2	42·0	55·2	69·9	71·9	67·5	—1·8
	Pachmarhi	3,579	·445	26·366	·080	·396	—·002	26·342	80·2	60·3	19·9	102·7	33·5	69·2	73·7	78·1	70·0	0
	Chikalda	3,642	·337	·244	·093	·286	—·011	·230	80·3	63·5	16·8	101·4	45·9	55·5	73·4	78·2	71·7	0
Hill Stations, South India.	Kodaikanal	7,339	22·852	22·784	·068	22·817	...	22·753	65·4	51·8	13·6	77·3	41·9	35·4	61·3	59·7	58·2	...
	Ootacamund	7,332	23·052	·990	·063	23·017	...	·953	65·6	49·5	16·1	75·0	35·7	39·3	62·2	60·8	57·2	...
	Dodabetta	8,639	22·033	21·971	·062	21·995	...	21·932	59·4	43·3 (a)	11·2	70·5	37·6	32·9	57·0	55·7	53·8 (a)	...
Extra India	Aden	94	29·852	29·739	·114	29·791	+·017	29·809	87·7	77·2	10·5	98·9	59·9	39·0	84·4	86·1	81·3	—1·0
	Perim	201	·718	·607	·111	·658	+·021	·791	90·4	80·1	10·3	101·3	72·4	28·9	86·7	88·1	84·3	+0·3
	Minicoy	7	·038	·890	·068	·920	...	·861	86·7	...	...	93·4	...	...	... (a)	84·0	83·6	...
	Zanzibar	72	30·011	·901	·110	·961	+·011	·959	83·7	76·0	7·7	91·6	69·9	21·7	79·3	82·9	79·0	—0·3
	Port Victoria (Seychelles).	15	29·987	·904	·083	·952	+·008	·891	88·1	77·1	6·0	89·1	71·0	18·1	81·1	81·7	78·2	+0·8
	Mauritius (Pamplemousses).	181	...	...	...	·890	...	30·019	...	...	...	90·1	51·6	38·5	...	...	73·1	...

N.B.—Elevations in italics indicate barometrical determinations.

(a) Mean of 11 months. * Mean of 5 months.

Note.—The barometric readings are not reduced to sea-level in the cases of hill or plateau stations the elevations of which exceed 3,200 feet.

II—*concld.*

at 64 stations in India, Burma, etc., in the year 1906—concld.

Temperature, Wet-bulb.				Vapour tension.					Humidity.					Cloud.				Rainfall.		Station.	Meteorological Province.
Mean minimum.	Mean 10 h.	Mean 16 h.	Mean of three previous columns.	From minimum.	Mean 10 h.	Mean 16 h.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 h.	Mean 16th.	Mean of daily means.	Departure from normal.	Mean 10 h.	Mean 16 h.	Mean of two previous columns.	Departure from normal.	Total rainfall for the year.	Heaviest rainfall during the year.		
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
42·1	56·9	51·8	49·2	·263	·261	·225	·247	+·001	80	41	33	53	+2	1·9	2·8	2·4	+0·5	10·16	0·89	Quetta	Hill Station Baluchistan.
25·6	35·4	38·5	33·1	·116	·145	·142	·134	—·001	62	45	34	48	−2	4·9	5·9	5·4	—0·2	1·94	0·46	Leh	Hill Stations, Northern India.
43·1	52·5	59·7	51·8	·294	·414	·534	·388	+·023	86	81	77	81	+1	4·5	5·2	4·9	+0·4	26·23	2·61	Srinagar.	
...	47·5	47·8	...	...	·263	·284	...	...	...	55	63	...	...	4·7	5·0	4·9	...	69·10	7·26	Sarain.	
...	47·2	48·2	...	...	·303	·318	...	...	...	79	61	...	...	7·1	7·8	7·5	...	82·83	6·52	Kalabagh.*	
44·0	48·3	50·0	47·4	·254	·290	·307	·281	—·002	66	59	62	64	+3	4·3	5·1	4·7	—0·4	101·69	6·63	Simla (Ridge).	
45·2	50·9	51·6	49·2	·281	·317	·331	·311	+·013	73	62	64	68	+3	3·7	4·5	4·1	—0·6	94·07	4·65	Chakrata.	
42·2	47·2	47·5	44·7	·216	·221	·212	·217	...	65	47	43	54	...	3·2	4·5	3·9	...	8·83	2·23	Ranikhet.*	
43·8	49·4	51·3	48·2	·251	·297	·317	·289	...	68	61	61	65	...	5·1	5·9	5·5	...	51·26	2·62	Muktesar.	
52·2	59·5	61·2	57·8	·412	·453	·443	·437	—·013	91	65	52	71	−2	3·2	4·0	3·6	−1·0	45·99	2·05	Katmandu.	
46·0	53·3	55 2	51·5	·314	·400	·431	·383	+·028	88	84	86	88	+1	6·2	7·0	6·6	—0·1	113·36	4·06	Darjeeling.	
54·0	57·7	53·7	56·8	·354	·357	·364	·361	—·005	61	49	47	55	+2	3·8	4·0	3·9	+0·4	71·82	7·84	Mount Abu	Hill Stations Central India.
53·9	61·4	62·9	59·4	·369	·417	·415	·403	—·024	67	52	46	58	−2	3·7	3·9	3·8	—0·5	78·93	4·88	Pachmarhi.	
58·3	61·8	63·8	61·3	·415	·431	·433	·426	—·003	70	55	48	60	0	4·2	4·6	4·4	+0·1	78·16	9·01	Chikalda.	
47·1	54·3	55 6	52·3	·285	·352	·406	·340	...	74	74	79	74	...	5·2	7·4	6·3	...	67·53	2·91	Kodaikanal	Hill Stations South India.
45·8 (b)	52·8	53·5	50·6 (b)	·236 (c)	·307	·335	·302 (c)	...	75 (c)	56	64	65 (c)	...	5·7	7·3	6·5	...	61·79	2·47	Ootacamund.	
49·5 (a)	50·3	50·6	49·3 (a)	·270 (a)	·298	·325	·285 (a)	...	76 (a)	66	74	67 (a)	..	6·3	7·5	6·9	...	58·19	2·25	Dodabetta.	
70·7	77 0	76·4	74·5	·679	·834	·786	·766	+·029	81	71	63	71	+2	3·7	1·8	2·8	+0·2	1·22	0·60	Aden	Extra India.
72·8	76·4	77·2	75·4	·719	·782	·797	·791	—·033	70	61	60	66	−6	1·1	0·9	1·0	—1·0	1·65	0·43	Perim.	
...	77·6 (a)	77·3	... (a)	...	·863 (a)	·853 (a)	... (a)	...	...	74 (a)	74	... (a)	...	4·3 (a)	5·1	5·0	...	71·32	4·22	Minicoy.	
72·2	75 0	75·5	74 0	·749	·816	·799	·805	—·011	83	81	70	80	0	6 0	5·6	5·8	+0·9	62·94	3·28	Zanzibar.	
72·4	76·0	76·2	74 9	·738	·833	·836	·822	+·009	79	78	77	80	−1	6·1	6·2	6·2	—0·1	95·68	3·65	Port Victoria (Seychelles).	
...	...	...	68·2	...	...	...	·619	...	...	...	...	75	...	...	...	...	...	42 17	3·00	Mauritius (Pamplemouses).	

(b) Mean of 7 months. (a) Mean of 11 months. (c) Mean of 6 months. * Mean of 5 months.

Addenda sheet of 8 hrs. observations in Table

Number of sub-division.	Station.	Temperature of air. Mean of 8 hrs. temperature.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	January 1906.													
	Kermanshah	41·1	40·5	...	35·1	...	42·3	...	14·4	65·2	17th	20·9	9th	44·3
	February 1906.													
	Kermanshah	40·8	46·1	...	33·0	...	39·6	...	13·1	60·0	23rd	16·1	16th	43·9
	March 1906.													
	Kermanshah	46·3	52·4	...	36·6	...	44·5	...	15·8	64·2	26th	21·5	4th and 5th	42·7
	April 1906.													
	Kermanshah	54·1	66·2	...	43·1	...	54·7	...	23·1	79·4	23rd	32·3	9th and 10th	47·2
	May 1906.													
	Chumbi †	48·7*	50·1*	...	36·6	...	47·9	...	22·5	60·8	4 days	30·4	4 days	30·4
	Kermanshah	59·7	73·9	...	48·4	...	61·2	...	25·5	91·6	17th	39·0	16th	52·6
	June 1906.													
	Kermanshah	71·9	89·6	...	59·7	...	74·6	...	29·9	101·4	30th	54·0	20th	47·4
	July 1906.													
	Fraserganj‡	83·4	...	...	...	...	...	...	...	...	...	...	...	...
	Chumbi	59·8*	68·7*	...	51·0	...	59·9	...	17·7	73·4	21st	43·1	17th	30·3
	Kermanshah	79·5	96·3	...	67·6	...	82·0	...	28·7	103·2	31st	61·4	17th	41·8
	October 1906.	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fraserganj§	83·2	...	...	...	...	...	...	...	...	...	...	...	...
	Kermanshah	57·4	74·3	...	43·4	...	61·3	...	25·9	89·0	1st	40·4	12th	48·6

* Uncorrected for scale error.
† Observations of 22 days.
‡ ,, ,, 10 hrs. and 21 days only.
§ Observations of 25 days.

C of 1908, Monthly Weather Review.

Wind Direction. Number of winds from. Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity miles per hour.	Normal.	Percentage departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal in inches of mercury.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Actual rainfall.	Normal rainfall.	Departure from normal.	Heaviest rainfall during month.	Station.
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																																JANUARY 1908.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	74	...	·199	...	...	...	5	...	...	1·50	...	...	(a) 1·50	...	...	0·51	Kermanshah.
																																FEBRUARY 1908.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	58	...	·152	...	...	...	0	...	...	0·08	...	...	(a) 1·58	...	...	0·08	Kermanshah.
																																MARCH 1908.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	71	...	·233	...	...	...	9	...	...	3·65	...	...	(a) 5·23	...	...	0·72	Kermanshah.
																																APRIL 1908.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	49	...	·207	...	...	...	6	...	...	3·60	...	...	(a) 8·83	...	...	1·05	Kermanshah.
																																MAY 1908.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	89	...	·305	...	...	...	9	...	...	3·13	...	...	(b) 3·13	...	...	0·93	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	55	...	·284	...	...	...	3	...	...	0·93	...	...	(b) 0·93	...	...	0·37	Kermanshah.
																																JUNE 1908.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	41	...	·319	...	...	...	2	...	...	0·91	...	...	(b) 1·84	...	...	0·65	Kermanshah.
																																JULY 1908.
...	4	...	...	17	...	...	...	...	S	...	...	...	...	43	...	90	...	1·025	...	...	...	9	...	...	6·51	...	...	(c) 30·06	...	...	2·40	Fraserganj.
...	...	31	...	...	...	...	...	...	N45°E	...	...	...	...	100	...	88	...	·451	...	...	...	13	...	...	4·01	...	...	(d) 7·14	...	...	0·49	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	31	...	·304	...	...	...	0	...	...	0	...	...	(b) 1·84	...	...	0	Kermanshah.
																																OCTOBER 1908.
10	...	...	...	10	...	5	...	...	W	...	...	...	...	20	...	77	...	·275	...	...	...	5	...	...	4·15	...	...	57·79	...	...	1·70	Fraserganj.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	47	...	·222	...	...	...	1	...	...	0·17	...	...	2·01	...	...	0·17	Kermanshah.

(a) Total rainfall since 1st January 1908.
(b) " " " 1st May "
(c) Total rainfall since 1st May to 31st July 1908.
(d) " " of May and July 1908.

Addenda sheet of 8 h. observations in Table I

Number of rainfall division.	Station.	Elevation of bar-ctern above sea-level in feet.	Pressure, 8 h., in inches.								Temperature of air.											
			Mean 8 h. pressure reduced to 32°.	Departure from normal.	Mean 8 h. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure recorded during month.	Date.	Lowest pressure recorded during month.	Date.	Total range of pressure during month.	Mean of 8 h. temperature.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	April 1906.																						
	Car Nicobar ...	25	29·919	...	29·871	29·936	11th	29·902	28th	·034	85·7	92·3	...	77·1	...	84·7	...	15·2	95·6	20th	73·5	15th and 16th	2·1
	Pharijong (a) ...	14,400	17 880	...	...	17·932	10th	17·713	18th	·269	35·3	53·2	...	23·8	...	38·5	...	29·4	68·1	10th	14·1	14th	54·0
	Amini Divi ...	13	(c) 29 930	(c) +·051	(c) 29·371	29·983	21st	29·888	28th	·100	86·0	93·2	+1·8	79·9	−0·1	86·1	+0·9	13·3	96·2	30th	75·2	6th	21·0
	May 1906.																						
	Car Nicobar ...	25	29·863	...	29·815	29·930	8th	29·796	23rd	·134	84·7	90·3	...	78·6	...	84·5	...	11·7	96·4	19th	73 0	25th	23·4
	Pharijong ...	14,400	17·887	...	...	17·944	26th	17·808	31st	·136	38·0	54·1	...	27·8	...	40·9	...	26·3	68·1	7th	21·1	1st	47·0
	June 1906.																						
	Car Nicobar ...	25	29·838	...	29·791	29·937	24th	29·795	12th	·142	81·5	87·0	...	76·9	...	82·0	...	10·1	99·0	21st	74·3	14th	24·7
	Pharijong ...	14,400	17 896	...	...	17 961	26th	17·806	12th	·155	43·6	55·4	...	34·9	...	45·2	...	20·5	66·1	4th	29·1	7th	37·0
	July 1906.																						
	Tehran (g) ...	4,002	25·833	...	...	25·900	6th & 16th	25·400	23rd, 14th & 28th	·200	84·6	100·4	+2·8	70·3	−1·4	86·6	+0·3	29·6	106·6	28th & 30th	60·3	1st	45·3
	Car Nicobar ...	25	29·802	...	29·754	29·900	31st	29·702	21st	·198	82·3	88·7	...	77·5	...	82·1	...	9 2	90·2	5th	72·1	8th	18·1
	Pharijong ...	14,400	17·900	...	...	17·965	30th	17·830	24th	·135	46·9	57·3	...	40·3	...	48·8	...	17·0	61·1	18th	36·1	18th	25·0
	August 1906.																						
	Tehran (f) ...	4,002	25 530	...	...	25·600	22nd	25·400	2nd	·460	79·6	100·7	+4·0	71·3	+0·6	86·0	+2·3	29·4	109·6	2nd & 3rd	63·8	24th & 27th	45·8
	Car Nicobar ...	25	29·858	...	29·809	29·940	5th	29·776	20th	·164	80·8	85·8	...	76·5	...	81·2	...	9·3	88·7	31st	74·5	17th	14·2
	Pharijong ...	14,400	17·935	...	...	18·034	21st	17·891	12th	·143	43·8	55·2	...	33·4	...	46·8	...	16·8	66·1	23rd	33·1	21st	34·0
	September 1906.																						
	Tehran (i) ...	4,002	25·725	...	...	25·850	24th	25·500	5th	·350	71·0	91·9	+1·9	62·7	−1·7	77·4	+0·1	29·2	95·5	5 days	59·7	22nd & 23rd	36·8
	Pharijong ...	14,400	17·968	...	...	18·029	29th and 30th	17 883	19th	·146	43·2	58·3	...	35·4	...	47·0	...	23·1	70·1	25th	25·1	30th	54·0
	Amini Divi ...	13	29·942	+·015	29·883	29·993	30th	29·903	5th	·090	82·0	87·3	+2·3	77·7	+0·4	82·5	+1·4	9·6	91·0	30th	74·8	29th	16·2
	October 1906.																						
	Tehran (n) ...	4,002	P* 25·853	...	...	26·009	14th & 27th	25·740	1st	·260	60·8	81·5	+4·6	51·8	−1·8	66·7	+1·4	29·7	93·5	1st	44·7	22nd	47·8

* Aneroid uncorrected.

(a) Mean of 23 days. (b) Mean of 22 days, (c) Mean of 13 days.
(g) " 24 " (i) " 18 " (j) " "
(f) " 17 " (n) " 27 " (p) " "
(m) " 7 "

of 1906, Monthly Weather Review.

Wind direction.									Wind velocity.				Hygrometry, 8 h.				Cloud.		Rainfall.									Station.
Number of winds from																												
Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Mean daily velocity in miles per hour, instrumental errors uncorrected.	Normal (uncorrected).	Percentage departure from normal.	Normal velocity corrected (where possible).	Mean humidity at 8 h.	Departure from normal.	Mean vapour-tension at 8 h.	Departure from normal.	Mean cloud amount at 8 h.	Departure from normal.	Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December 1905 to 30th April 1906.	Normal rainfall for period, 1st December to 30th April.	Departure from normal of period, 1st December 1905 to 30th April 1906.	Heaviest rainfall during month.	
26	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																														April 1906.
8	9	...	...	...	...	...	1	11	N28°W	1·9	...	...	1·9	·71	...	·885	...	10·0	...	0	...	...	0·66	...	...	23·52	...	...	0·06	Car Nicobar.
14	3	1	1	...	1	...	4	5	N27°W	(b) 9·0	...	...	(b) 7·5	94	...	·197	...	0·7	...	0	...	...	0	...	...	0	...	...	0	Pharijong.
11	6	3	...	...	...	...	1	9	N18°W	...	...	...	...	71	...	·293	...	4·6	...	0	...	...	0	2·58	-2·58	0·01	3·04	-3·03	0	Amini Divi.
																														May 1906.
...	2	1	...	...	3	12	7	3	S68°W	3·4	...	...	3·4	81	...	·969	...	9·7	...	13	...	...	8·68	...	...	(d) 8·68	...	...	1·88	Car Nicobar.
8	4	...	...	2	10	1	6	3	S49°W	10·8	...	...	9·1	85	...	·194	...	2·2	...	3	...	...	0·60	...	...	(d) 0·60	...	...	0·22	Pharijong.
																														June 1906.
...	...	...	...	...	3	16	11	...	S59°W	3·7	...	...	3·7	88	...	·943	...	9·3	...	18	...	...	12·40	...	...	(e) 21·08	...	...	2·19	Car Nicobar.
6	...	...	...	...	8	10	1	3	2	S4°E	12·7	...	...	10·6	77	...	·218	...	4·8	...	6	...	...	1·52	...	...	(e) 2·12	...	...	0·30	Pharijong.
																														July 1906.
14	1	1	...	...	4	3	1	...	327°W	(i) 1·1	...	...	(i) 1·0	73	...	·885	...	0·5	...	1	...	...	0·64	...	...	f 2·09	...	...	0·64	Tehran.
...	...	...	...	...	...	16	15	...	S76°W	4·3	...	...	4·3	87	...	·959	...	9·7	...	16	...	...	9·34	...	...	30·42	...	...	3·35	Car Nicobar.
	...	...	...	5	13	1	3	...	S1°W	11·3	...	...	10·0	84	...	·269	...	4·4	...	10	...	...	2·32	...	...	f 4·44	...	...	0·32	Pharijong.
																														August 1906.
18	4	3	...	...	1	2	...	...	N14°E	(j) 0·2	...	...	(j) 0·7	84	...	·267	...	0·5	...	0	...	...	0	...	...	h 2·09	...	...	0	Tehran.
...	...	...	...	...	...	16	15	...	S67°W	3·4	...	...	3·4	88	...	·221	...	2·5	...	15	...	...	9·39	...	...	h 39·81	...	...	2·77	CarNicobar.
17	...	...	...	6	3	...	5	...	S6°W	8·0	...	...	7·2	89	...	·254	...	4·7	...	14	...	...	4·67	...	...	h 9·11	...	...	1·15	Pharijong.
																														September 1906
6	8	3	2	...	2	...	...	...	N27°E	(m) 4·3	...	...	(m) 4·1	65	...	·495	...	0·3	...	0	...	...	0	...	...	(k) 2·09	...	...	0	Tehran.
14	...	...	...	5	7	...	4	...	S5°W	9·0	...	...	7·5	87	...	·243	...	3·1	...	8	...	...	1·80	...	...	(k) 10·71	...	...	0·35	Pharijong.
8	3	...	...	...	...	1	5	13	N51°W	...	...	...	...	77	...	·844	...	5·3	...	4	...	...	1·07	5·54	-4·47	(k) 51·36	37·73	+13·63	0·25	Amini Divi.
																														October 1906.
...	17	4	2	...	...	...	...	...	N14°E	(e) 1·5	...	...	(e) 1·3	72	...	·390	...	0·7	...	1	...	...	0·39	...	...	(r) 2·48	...	...	0·53	Tehran.

(d) Total rainfall from 1st to 31st May 1906.
(e) Ditto 1st May to 30th June 1906.
(f) Ditto do. 31st July 1906.
(h) Ditto do. 31st August 1906.
(k) Ditto do. 30th September 1906.
(r) Ditto do. 31st October 1906.

Corrigenda in India Monthly Weather Reviews for the year 1906.

TEXT.

Page.	Column.	Part.	Correction.
13	...	January 1906 .	*For* "0·9, 0·44 and —0·22" *read* "1·0, 0·45 and —0·23" respectively against Assam (Surma) in the figure columns 1, 4 and 5 of the 2nd tabular statement.
13	...	Ditto .	*For* "1·5, 0·31, 0·65 and —0·34" *read* "1·4, 0·32, 0·62 and —0·30" respectively, against Assam (Hills) in the figure columns 2, 3, 4 and 5 of the 2nd tabular statement.
13	...	Ditto .	*For* "0·54, 0·87 and —0·33" *read* "0·51, 0·83 and —0·32" respectively, against Assam (Brahmaputra) in the figure columns 3, 4 and 5 of the 2nd tabular statement.
13	...	Ditto .	*For* "2·8, 1·35 and +0·86" *read* "2·7, 1·32 and +0·83" respectively, against Central Bengal in the figure columns 1, 3 and 5 of the 2nd tabular statement.
13	...	Ditto .	*For* "0·5, 0·12, 0·83 and —0·71" *read* "0·4, 0·11, 0·84 and —0·73" respectively, against Bengal Hills in the figure columns 1, 3, 4 and 5 of the 2nd tabular statement.
13	...	Ditto .	*For* "2·1, 1·13 and +0·88" *read* "2·3, 1·22 and +0·97" respectively, against Orissa in the figure columns 1, 3 and 5 of the 2nd tabular statement.
13	...	Ditto .	*For* "3·9. 1·88 and +1·37" *read* "4·0, 1·91 and +1·40" respectively, against Chota Nagpur in the figure columns 1, 3 and 5 of the 2nd tabular statement.
13	...	Ditto .	*For* "1·2, 0·40, 0·68 and 0·28" *read* "1·1, 0·38, 0·67 and —0·29" respectively, against Bihar (North) in the figure columns 1, 3, 4 and 5 of the 2nd tabular statement.
14	...	Ditto .	*For* "0·8, 2·4, 0·32 and —1·06" *read* "0·7, 2·5, 0·29 and —1·09" respectively, against North-West Frontier Province in the figure columns 1, 2, 3 and 5 of the 1st tabular statement.
21	1	February 1906 .	*For* "9 *h.* 33·8 *m.*" *read* "9 *h.* 33·4 *m.*" in the figure column 6 of the tabular statement.
27	...	Ditto .	*For* "6·1, 2·9, 3·12, 1·35, +1·77 and +131" *read* "6·2, 3·0, 4·70, 1·39, +3·31 and +238" respectively, against Assam (Hills) in the figure columns 1, 2, 3, 4, 5 and 6 of the 2nd tabular statement.
27	...	Ditto .	*For* "4·61, +3·54 and +331" *read* "4·64, +3·57 and +334" respectively, against Deltaic Bengal in the figure columns 3, 5 and 6 of the 2nd tabular statement.
27	...	Ditto .	*For* "1·4, 3·82, +3·10 and +431" *read* "1·3, 3·70, +2·98 and +414" respectively, against Central Bengal in the figure columns 2, 3, 5 and 6 of the 2nd tabular statement.
27	...	Ditto .	*For* "9·0, 5·33, +4·57 and +601" *read* "8·8, 5·26, +4·50 and +592" respectively, against Chota Nagpur in the figure columns 1, 3, 5 and 6 of the 2nd tabular statement.
27	...	Ditto .	*For* "2·40, 0·67, +1·73 and +258" *read* "2·42, 0·66, +1·76 and +267" respectively, against Bihar (South) in the figure columns 3, 4, 5 and 6 of the 2nd tabular statement.
28	...	Ditto .	*For* "4·0, 1·25, +0·77 and +160" *read* "4·1, 1·27, +0·79 and +165" respectively, against United Provinces (East) in the figure columns 1, 3, 5 and 6 of the 1st tabular statement.
28	...	Ditto .	*For* "3·3, 2·00, +1·45 and +264" *read* "3·4, 2·01, +1·46 and 265" respectively, against United Provinces (West) in the figure columns 1, 3, 5 and 6 of the 1st tabular statement.
28	...	Ditto .	*For* "2·1, 0·93, +0·46 and +98" *read* "2·2, 1·01, +0·54 and +115" respectively, against Central Provinces (Central) in the figure columns 1, 3, 5 and 6 of the 1st tabular statement.

Corrigenda in India Monthly Weather Reviews for the year 1906—contd.

TEXT.

Page.	Column.	Part.	Correction.
41	...	March 1906	*For* "6·2, 3·26, —4·23 and 56" *read* "6·4, 3·40, —4·09 and —55" respectively, against Assam (Surma) in the figure columns 1, 3, 5 and 6 of the tabular statement.
41	...	Ditto	*For* "1·51, +0·72 and +91" *read* "1·52, +0·73 and +92" respectively, against Central Bengal in the figure columns 3, 5 and 6 of the tabular statement.
41	...	Ditto	*For* "2·6, 1·32, +0·23 and +21" *read* "2·8, 1·51, +0·42 and +39" respectively, against Orissa in the figure columns 1, 3, 5 and 6 of the tabular statement.
41	...	Ditto	*For* "1·41, +0·70 and +99" *read* "1·42, +0·71 and +100" respectively, against Chota Nagpur in the figure columns 3, 5 and 6 of the tabular statement.
41	...	Ditto	*For* "0·21, —0·17 and —45" *read* "0·23, —0·15 and —39" respectively, against Bihar (North) in the figure columns 3, 5 and 6 of the tabular statement.
41	...	Ditto	*For* "1·12, +0·80 and +2 5" *read* "1·09, +0·77 and +247" respectively, against United Provinces (West) in the figure columns 3, 5 and 6 of the tabular statement.
41	...	Ditto	*For* "0·31, —0·14 and —45" *read* "0·30, —0·13 and —43" respectively, against United Provinces (East Submontane) in the figure columns 4, 5 and 6 of the tabular statement.
48	1	April 1906	*For* "and the extremes were 5°, and 14°:" *read* "and the extremes were 5° and 25°:" in the 15th line of paragraph 2.
56	...	Ditto	*For* "1·0, 0·35, —0·80 and —70" *read* "1·2, 0·41, —0·74 and —64" respectively, against Upper Burma in the figure columns 1, 3, 5 and 6 of the 2nd tabular statement.
56	...	Ditto	*For* "0·06, 1·39 and —1·33" *read* "0·05, 1·41 and 1·36" respectively, against Central Bengal in the figure columns 3, 4 and 5 of the 2nd tabular statement.
56	...	Ditto	*For* "2·1, 1 20 and —1·08" *read* "2·2, 1 25 and —1 13" respectively, against Orissa in the figure columns 2, 4 and 5 of the 2nd tabular statement.
56	...	Ditto	*For* "0·90, —0·85 and —94" *read* "0·92, —0 87 and —95" respectively, against Chota Nagpur in the figure columns 4, 5 and 6 of the 2nd tabular statement.
56	...	Ditto	*For* "1·4, 0·82 and —0·79" *read* "1·3, 0·79 and —0·76" respectively, against Bihar (North) in the figure columns 2, 4 and 5 of the 2nd tabular statement.
57	...	Ditto	*For* "0·16, —0·34 and —68" *read* "0 17, —0·33 and —66" respectively, against Baluchistan Hills in the figure columns 3, 5 and 6 of the tabular statement.
68	...	May 1906	*For* "5·7, 6·3, 3·37, 4·57, —1·20 and —26" *read* "5·8, 6·2, 3·46, 4·56, —1·16 and —25" respectively, against Central Bengal in the figure columns 1, 2, 3, 4, 5 and 6 of the tabular statement.
68	...	Ditto	*For* "2·41 and —1·21" *read* "2 44 and —1·18" respectively, against Orissa in the figure columns 3 and 5 of the tabular statement.
68	...	Ditto	*For* "2·6, 1·07, —1·23 and —53" *read* "2·7, 1·10, —1·20 and —52" respectively, against Chota Nagpur in the figure columns 1, 3, 5 and 6 of the tabular statement.
68	...	Ditto	*For* "2·1, 1·42, —0·50 and —35" *read* "2·0, 1·40, —0·48 and —34" respectively, against Bihar (South) in the figure columns 2, 4, 5 and 6 of the tabular statement.
68	...	Ditto	*For* "1·4, 0·56, —0·40 and —42" *read* "1·5, 0·59, —0·37 and —39" respectively, against Oudh (North) in the figure columns 1, 3, 5 and 6 of the tabular statement.
68	...	Ditto	*For* "0·67, —1·66 and —71" *read* "0·69, —1·64 and —70" respectively, against Madras East Coast (North) in the figure columns 3, 5 and 6 of the tabular statement.
76	...	June 1906	*For* "89·0, +0 2 and —0·1" *read* "88·9, +0·1 and 0·2" respectively, against Bombay Deccan in the figure columns 1, 6 and 8 of the tabular statement.

Corrigenda in India Monthly Weather Reviews for the year 1906—contd.

TEXT.

Page.	Column.	Part.	Correction.
76	...	June 1906 .	*For* "97·4, 78·6, 88·0, 18 9, 39·7, —0·6 and —0·4" *read* "97·3, 78·5, 87·9, 18·7, 40·4, —0·7 and —0·5" respectively, against Central Provinces (West) in the figure columns 1 to 6 and 8 respectively of the tabular statement.
78	...	Ditto .	*For* "18·29, —11·93 and —39" *read* "18·11, —12·11 and —40" respectively, against Assam (Hills) in the figure columns 3, 5 and 6 of the 2nd tabular statement.
78	...	Ditto .	*For* "10·3, 6·79, —3·58 and —35" *read* "10·4, 6·82, —3·55 and —34" respectively, against Central Bengal in the figure columns 1, 3, 5 and 6 of the 2nd tabular statement.
78	...	Ditto .	*For* "9·3, 6·44, —2·78 and —30" *read* "9·0, 6·16, —3·06 and —32" respectively, against Chota Nagpur in the figure columns 1, 3, 5 and 6 of the 2nd tabular statement.
78	...	Ditto .	*For* "7·5, 6·02, —0·96 and —14" *read* "7·7, 6·14, —0·84 and —12" respectively, against Bihar (South) in the figure columns 1, 3, 5 and 6 of the 2nd tabular statement.
78	...	Ditto .	*For* "9·43, +3·77 and +66" *read* "9·51, +3·80 and +67" respectively, against United Provinces (West Submontane) in the figure columns 3, 5 and 6 of the 2nd tabular statement.
79	...	Ditto .	*For* "3·51, +0·99, and +39" *read* "3·60, +1·08 and +43" respectively, against Madras (Central) in the figure columns 3, 5 and 6 of the 1st tabular statement.
88	...	July 1906 .	*For* "shuwn" *read* "shown" in the heading of the tabular statement.
88	...	Ditto .	*For* "23·6, 22·47 and —1·65" *read* "23·7, 22·54 and —1·53" respectively, against Lower Burma (Deltaic) in the figure columns 1, 3 and 5 of the tabular statement.
88	...	Ditto .	*For* "18·4, 18·13, +0·15 and +1" *read* "18·3, 17·88, —0·10 and —1" respectively against Eastern Bengal in the figure columns 1, 3, 5 and 6 of the tabular statement.
88	...	Ditto .	*For* "14·8, 16·2, 11·47, —0·50 and —4" *read* "14·7, 16·0, 11·29, —0·68 and —6" respectively, against Deltaic Bengal in the figure columns 1, 2, 3, 5 and 6 of the tabular statement.
88	...	Ditto .	*For* 14·9, 14·61, +0·52 and +4" *read* "14·3, 14·29, +0·20 and +1" respectively against Chota Nagpur in the figure columns 1, 3, 5 and 6 of the tabular statement.
88	...	Ditto .	*For* "14·1, 11·71, —1·03 and —8" *read* "14·0, 11·60, —1·14 and —9" respectively, against Bihar (South) in the figure columns 1, 3, 5 and 6 of the tabular statement.
88	...	Ditto .	*For* "16·1, 16·04 +2·49 and +18" *read* "16·2, 16·53, +2·98 and +23" respectively, against Bihar (North) in the figure columns 1, 3, 5 and 6 of the tabular statement.
88	...	Ditto .	*For* "12·26, 10·98, and +1·28" *read* "12·27, 10·97 and +1·30" respectively, against Oudh (South) in the figure columns 3, 4 and 5 of tabular statement.
88	...	Ditto .	*For* "12·54 and —2·37" *read* "12·53 and —2·38" respectively against United Provinces (West Submontane) in the figure columns 3 and 5 of the tabular statement.
88	...	Ditto .	*For* "6·13 and —2·05" *read* "6·12 and —2·06" respectively against Punjab (Submontane)in the figure columns 3 and 5 of the tabular statement.
88	...	Ditto .	*For* "7·03 and +0·56" *read* "7·02 and +0·55 respectively, against Mysore in the figure columns 3 and 5 of the tabular statement.
88	...	Ditto .	*For* "11 63 and +2·31" *read* "11·62 and +2 30" respectively against Berar in the figure columns 3 and 5 of the tabular statement.
88	...	Ditto .	*For* "—0·6" *read* "—0·23,g" aainst Madras (South) in the figure column 5 of the tabular statement.

Corrigenda in India Monthly Weather Reviews for the year 1906—contd.

TEXT.

Page.	Column.	Part.	Correction.
98	...	August 1906	*For* "18·4, 18·13, +3·53, and +24" *read* "18·1, 17·85, +3·25 and +22" respectively, against Assam (Brahmaputra) in the figure columns 1, 3, 5 and 6 of tabular statement.
98	...	Ditto	*For* "15·2, 10·37, —1·74 and —14" *read* "15·1, 10·23, —1·88 and —16" respectively against Deltaic Bengal in the figure columns 1, 3, 5 and 6 of the tabular statement.
98	...	Ditto	*For* "17·9, 13·36, +2·03 and +18" *read* "17·7, 12·98, +1·65 and +15" respectively, against Central Bengal in the figure columns 1, 3, 5 and 6 of the tabular statement.
98	...	Ditto	*For* "15·9, 9·37, and —3·98" *read* "15·8, 9·31, and —4·04" respectively, against Chota Nagpur in the figure columns 1, 3 and 5 of the tabular statement.
98	...	Ditto	*For* "10·41 and —1·11" *read* "10·42 and —1·10" respectively, against South Bihar in the figure columns 3 and 5 of the tabular statement.
98	...	Ditto	*For* "21·62, +9·46 and +78" *read* "21·35, +9·19 and +76" respectively, against North Bihar in the figure columns 3, 5 and 6 of the tabular statement.
98	...	Ditto	*For* "13·57 and —0·56" *read* "13·59 and —0·54" respectively against United Provinces (West Submontane) in the figure columns 3 and 5 of the tabular statement.
98	...	Ditto	*For* "16·13, —1·27 and —7" *read* "18·13, +0·73 and +4" respectively, against United Provinces (Hills) in the figure columns 3, 5 and 6 of the tabular statement.
98	...	Ditto	*For* "9·77 and —4·04" *read* "9·78 and —4·03" respectively against Central Provinces (Central) in the figure columns 3 and 5 of the tabular statement.
98	...	Ditto	*For* "0·99 +0·18, and +22" *read* "0·98, +0·17 and +21" respectively against Baluchistan Hills in the figure columns 3, 5 and 6 of the tabular statement.
98	...	Ditto	*For* "10·1, 13·0, 6·72, 11·44, —4·72 and —41" *read* "9·7, 13·1, 6·35, 11·28, —4·93 and —44" respectively against Central India (East) in the figure columns 1, 2, 3, 4, 5 and 6 of the tabular statement.
99	1	Ditto	*For* "23·01, +7·19 and +45" *read* "22·80, +6·98 and +44" respectively, against Eastern Bengal and Assam in the figure columns 1, 3 and 4 of the tabular statement.
107	2	September 1906	*For* "—0·" *read* "—0·9" against West Coast in the figure column 6 of the 1st tabular statement. *Insert* "0" against South India in the figure column 6 of the 1st tabular statement.
107	...	Ditto	*For* "10·9" *read* "11·0" against Central Bengal in the figure column 1 of the 2nd tabular statement.
107	...	Ditto	*For* "14·4, 7·86, —8·73 and —53" *read* "15·4, 8·36, —8·23 and —50" respectively, against Bengal Hills in the figure columns 1, 3, 5 and 6 of the 2nd tabular statement.
107	...	Ditto	*For* "12·7, 10·41, +0·53 and +5" *read* "12·8, 10·52, +0·64 and +6" respectively, against Orissa in the figure columns 1, 3, 5 and 6 of the 2nd tabular statement.
107	...	Ditto	*For* "10·9, 7·49, —0·76 and —9" *read* "10·4, 7·84, —0·41 and —5" respectively, against Chota Nagpur in the figure columns 1, 3, 5 and 6 of the 2nd tabular statement.
107	...	Ditto	*For* "6·7, 3·57, —6·74 and —65" *read* "6·6, 3·51, —6·80 and —66" respectively, against Bihar (North) in the figure columns 1, 3, 5 and 6 of the 2nd tabular statement.
107	...	Ditto	*For* "11·4, 9·02 and +1·23" *read* "11·5, 9·07 and +1·28" respectively, against United Provinces (Hills) in the figure columns 1, 3 and 5 of the 2nd tabular statement.
108	...	Ditto	*For* "11·8, 7·8, 6·32, +8·93 and +141" *read* "11·9, 7·7, 6·15, +9·10 and +148" respectively, against Central India (East) in the figure columns 1, 2, 4, 5 and 6 of the 1st tabular statement.

Corrigenda in the India Monthly Weather Reviews for the year 1906—concld.

TEXT.

Page.	Column.	Part.	Correction.
117	...	October 1906 .	*For* "5·84, +1·33 and +29" *read* "5·78, +1·27 and +28" respectively, against Deltaic Bengal in the figure columns 3, 5 and 6 of the tabular statement.
117	...	Ditto .	*For* "6·5, 5·82, +2·36 and +68" *read* "6·6, 5·87, +2·41 and +70" respectively, against Central Bengal in the figure columns 1, 3, 5 and 6 of the tabular statement.
117	...	Ditto .	*For* "4·3, 2·15, —1·85, and —46" *read* "3·1, 1·53, —2·47 and —62" respectively, against Bengal Hills in the figure columns 1, 3, 5 and 6 of the tabular statement.
117	...	Ditto .	*For* "6·1, 5·01, —0·58 and —10" *read* "5·6, 4·55, —1·04 and —19" respectively, against Orissa in the figure columns 1, 3, 5 and 6 of the tabular statement.
117	...	Ditto .	*For* "5·4, 3·07, +0·28 and +10" *read* "5·5, 3·02, +0·23 and +8" respectively, against Chota Nagpur in the figure columns 1, 3, 5 and 6 of the tabular statement.
117	...	Ditto .	*For* "2·3, 1·48, —1·02 and —41" *read* "2·2, 1·41, —1·09 and —44" respectively, against Bihar (South) in the figure columns 1, 3, 5 and 6 of the tabular statement.
117	...	Ditto .	*For* "2·1, 1·17, —1·52 and —57" *read* "1·9, 1·08, —1·61 and —60" respectively, against Bihar (North) in the figure columns 1, 3, 5 and 6 of the tabular statement.
117	...	Ditto .	*For* "0·14, 0·98 and —0·84" *read* "0·13, 0·94 and —0·81" respectively, against Central India (East) in the figure columns 3, 4 and 5 of the tabular statement.
127	...	November 1906 .	*For* "0·45, +0·02 and +5" *read* "0·46, +0·03 and +7" respectively, against Central Bengal in the figure columns 3, 5 and 6 of the tabular statement.
127	...	Ditto .	*For* "0·4, 0·09, —0·22 and —71" *read* "0·6, 0·14, —0·17 and —55" respectively, against Bengal Hills in the figure columns 1, 3, 5 and 6 of the tabular statement.
127	...	Ditto .	*For* "1·0, 0·40, —1·00 and —71" *read* "1·1, 0·43, —0·97 and —69" respectively, against Orissa in the figure columns 1, 3, 5 and 6 of the tabular statement.
127	...	Ditto .	*For* "0·5, 0·30, —0·05 and 14" *read* "0·6, 0·35, 0 and 0" respectively, against Chota Nagpur in the figure columns 1, 3, 5 and 6 of the tabular statement.
128	...	Ditto .	*For* "0·25 and —0·25" *read* "0·24 and —0·24" respectively, against Central India (East) in the figure columns 4 and 5 of the 1st tabular statement.
138	...	December 1906 .	*For* "0·39 and —0·39" *read* "0·40 and —0·40" respectively, against Central India (East) in the figure columns 4 and 5 of the tabular statement.
138	...	Ditto .	*For* "5·60, +3·11 and +56" *read* "5·65, +3·06 and +54" respectively against Madras East Coast (South) in the figure columns 4, 5 and 6 of the tabular statement.

Corrigenda in the India Monthly Weather Reviews for the year 1906.

Tables I and II.

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
iv	January 1906	I	Krishnagar	Number of rainfall division.	1	*For* "1" *read* "10."
iv	Do.	I	Bogra	Elevation of Barcistern, etc.	3	*For* "61" *read* "75".
iv	Do.	I	Do.	Pressure, etc.	6	*For* "30·027" *read* "30·041".
vi	Do.	I	Jaipur	Temperature of air	17	*For* "89 0" *read* "59·0".
vii	Do.	I	Dera Ismail Khan.	Wind direction	34	*For* "N. 18° E" *read* "N. 19° W."
vii	Do.	I	Khushab	Do.	34	*For* "S. 72° W." *read* "N. 75° W."
vii	Do.	I	Neemuch	Cloud	43	*For* "1·5" *read* "1·1."
viii	Do.	I	Nagpur	Elevation of Barcistern, etc, and Pressure.	3, 5 and 6	*For* "1,025, + ·002 and 30·055" *read* "1,017, —·006 and 30·047", respectively.
viii	Do.	I	Do.	Temperature of air	12, 13, 14, 15, 16, 17, 18, 20 and 22.	*For* "61·1, 83·6, + 0·1, 54·2 —0·7, 69·3, — 0·3, 89·6 and 43·1" *read* "60·1, 83·1, — 0·4, 54·4, — 1·2, 68·8, — 0·3, 89·1 and 42·6", respectively.
xi	Do.	I	Salem	Wind direction	28	*For* "16" *read* "15".
xiii	Do.	I	Kailang	Rainfall	45, 48, 50, 51, 53 and 54.	*Insert* "5,1·33, —1·59, 2·64, — 1·36 and 0·40", respectively.
xvi	Do.	II	Nagpur (Sanitary Commissioner's Office.)	Elevation of bar., etc.	3	*For* "1,013" *read* "1,017."
xvi	Do.	II	Do.	Pressure	8 and 9	*Insert* + "·001" in column 8 and *for* "958" *read* "962" in column 9.
xvi	Do.	II	Do.	Temperature of air	19	*Insert* "— 0·2."
xvii	Do.	II	Do.	... ...	28, 33, 37, 48, 50 and 52.	*Insert* "—·058, — 9, + 0·4, N. 72° E., 30 and 84", respectively.
xviii	Do.	II	Simla (Ridge)	Pressure	9	*For* "23" *read* "23·058".
xxii	February 1906	I	Rangoon	Elevation of bar., etc.	3	*For* "57" *read* "36".
xxiv	Do.	I	Bogra	Elevation of bar., etc.	3	*For* "61" *read* "75".
xxiv	Do.		Do.	Pressure, etc.	6	*For* "29·941 ?" *read* "29·955".
xxv	Do.	I	Burdwan	Wind velocity	35	*For* "1·0" *read* "1 8".
xxvi	Do.	I	Ludhiana	Temperature of air	13 to 21 and 24.	*For* "66·8 — 4·4, 49·4 + 1·9, 58·1, — 1·3, 17·4, 81·1, 2nd and 39·0" *read* "67·0, — 4·2, 49·2 + 0·7, 57·6, — 1·8, 18·8, 75·1, 3rd and 33·0", respectively.
xxvi	Do.	I	Nowgong	Temperature of air	21	*For* "4" *read* "9th".
xxvii	Do.	I	Dera Ismail Khan.	Rainfall	49 and 50	*For* "0·77 and + 2·16" *read* "0·79 and + 2·14", respectively.
xxvii	Do.	I	Khushab	Wind direction	34	*For* "N. 36° E." *read* "N. 40° E."
xxviii	Do.	I	Nagpur	Elevation of bar. etc.	3	*For* "1,025" *read* "1,012".
xxviii	Do.	I	Nagpur	Pressure, etc.	5 and 6	*For* — ·032 and 29·949 *read* "—0·40 and 29·941," respectively.
xxx	Do.	I	Srinagar	Temperature of air	15 to 19 and 22 to 24	*For* "28·5 + 1·2, 35·1, + 0·3, 13·1, 1·1, 23rd and 45·9" *read* "29·0, + 1·7, 35·3, + 0·5, 12·6, 20·1, 6th and 26·9", respectively.
xxxiii	Do.	I	Aden	Rainfall	46 and 47	*For* "1·29 and — 8·9 *read* "blank."
xxxvi	Do.	II	Rangoon	Elevation of bar., etc.	3	*For* "57" *read* "36".

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Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
xxxvi	February 1906	II	Rangoon . .	Pressure, etc. .	8 and 9	*For* "—0·09 and ·378" *read* "— 0·30 and ·357", respectively.
xxxvi	Do. . .	II	Nagpur (Sanitary Commissioner's Office).	Elevation of bar., etc.	3	*For* "1,013" *read* "1,017."
xxxvi	Do. . .	II	Do. . .	Pressure . .	8 and 9	*Insert*, "—·044." in column 8 and *for* "·352" *read* "·356" in column 9, respectively.
xxxvi	Do. . .	II	Do. . .	Temperature of air	19	*Insert* "—0·3."
xxxvii	Do. . .	II	Ludhiana . .	Rainfall . .	53 and 54	*For* "3·95 and 0·94" *read* "3·91 and 0·91", respectively.
xxxvii	Do. . .	II	Nagpur (Sanitary Commissioner's Office).	.....	28, 33, 37, 48, 50 and 52.	*Insert* "+ ·051, + 6, + 1·1, N. 42° E., 19 and 106" respectively.
xxxviii	Do. . .	II	Pachmarhi . .	Temperature of air	19	*For* "—1·8" *read* "—1·5."
xlii	March 1906 . .	I	Rangoon . .	Elevation of bar., etc.	3	*For* "57" *read* "36."
xliii	Do. . .	I	Monywa . .	Rainfall . .	49 and 50	*For* "0·23 and — 0·23" *read* 0·24 and — 0·24", respectively.
xliv	Do. . .	II	Bogra . .	Elevation of bar., etc.	3	*For* "61" *read* "75."
xliv	Do. . .	I	Do. . .	Pressure, etc. .	6	*For* "29·924" *read* "29·988".
xlviii	Do. . .	I	Nagpur . .	Elevation of bar., etc.	3	*For* "1,025" read "1,017."
xlviii	Do. . .	I	Do. . .	Pressure, etc. .	5 and 6	*For* "+ ·039 and 29·936" *read* "+ ·031 and 29·928", respectively.
xlix	Do. . .	I	Ahmednagar . .	Rainfall . .	52 and 53	*For* "1·22 and — 0·82" *read* "1·23 and —0·83", respectively.
lii	Do. . .	I	Kodaikanal . .	Temperature of air	24	*For* "27" *read* "27·3."
lvi	Do. . .	II	Rangoon . .	Elevation of bar., etc.	3	*For* "57" *read* "36".
lvi	Do. . .	II	Do.	Pressure . .	8 and 9	*For* "+ ·057 and ·392" *read* "+ ·036 and ·371", respectively.
lvi	Do. . .	II	Nagpur (Sanitary Commissioner's Office).	Elevation of bar., etc.	3	*For* "1,013" *read* "1,017".
lvi	Do. . .	II	Do.	Pressure . .	8 and 9	*Insert* "+ ·045" in column 8 and *for* "·842" *read* "·846 in column 9.
lvi	Do. . .	II	Do.	Temperature of air	19	*Insert* "— 2·4".
lvii	Do. . .	II	Do.	.....	28, 33, 37, 48, 50 and 52.	*Insert* "+ ·034, + 6, + 0·5, N. 6° E., 12 and 116," respectively.
lviii	Do. . .	II	Hassan . .	Temperature, wet bulb.	21	*For* "64." *read* "64·7".
lxii	April 1906 . .	II	Burma Coast and Bay Islands.	Temperature of air	19	*For* "16·6" *read* "16·7".
lxii	Do. . .	I	Slipper Island .	Do. .	13, 19, 20 and 24.	*For* "89·9, 10·4, 92·2 and 15·1" *read* "89·3, 9·8 91·6 and 14·5", respectively.
lxii	Do. . .	I	Port Blair . .	Do. .	15 to 19 and 22 to 24.	*For* "78·8, —0·2, 86·4 + 0·6, 15·0, 76·9 3rd and 16th and 19·2" *read* "78 5, — 0·5, 86·2, + 0·4, 15·3, 76·5 16th and 19 6", respectively.
lxii	Do. . .	I	Rangoon . .	Elevation of bar., etc.	3	*For* "57" *read* "36".
lxiv	Do. . .	I	Bogra . .	Do.	3	*For* "61" *read* "75".

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Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
lxiv	April 1906 . .	I	Bogra . .	Pressure . .	6	*For* "29·705" *read* "29·719".
lxviii	Do. . .	I	Poona . .	Elevation of bar., etc.	3	*For* "1,840" *read* "1,846".
lxviii	Do. . .	I	Nagpur . .	Do.	3	*For* "1,025 *read* 1,017".
lxviii	Do. . .	I	Do. . .	Pressure . .	5 and 6	*For* "+·006 and 29·775" *read* "—·002 and 29·767", respectively.
lxviii	Do. . .	I	Hyderabad (Deccan).	Temperature of air	18	*For* "+2·5" *read* "+3·0".
lxx	Do. . .	I	Salem . .	Pressure . .	9	*For* "29·958" *read* "28·958".
lxxi	Do. . .	I	Mysore . .	Wind direction .	33	*Insert* "1".
lxxii	Do. . .	I	Meshed . .	Pressure . .	4	*For* "27·520 (c)" *read* "27·529 (c)."
lxxvi	Do. . .	I	Rangoon . .	Elevation of bar.,etc.	3	*For* "57" *read* "36".
lxxvi	Do. . .	II	Do. . .	Pressure . .	8 and 9	*For* "+·018 and ·796" *read* "— ·003 and ·775", respectively.
lxxvi	Do. . .	II	Nagpur (Sanitary Commissioner's Office).	Elevation of bar., etc.	3	*For* "1,013" *read* "1,017."
lxxvi	Do. . .	II	Do.	Pressure . .	8 and 9	*For* "0 and ·672" *read* "+·004 and ·676", respectively.
lxxxii	May 1906 . .	I	Port Blair . .	Temperature of air	15 to 19, 22 and 24.	*For* "80·0, +1·6, 85·9, +2·2, 11·7, 72·4 and 23·7" *read* "79·6, +1·2, 85·7, +2·0, 12·1, 72·0 and 24·1", respectively.
lxxxii	Do. . .	I	Rangoon . .	Elevation of bar.,etc.	3	*For* "57" *read* "36."
lxxxiii	Do. . .	I	Noakhali . .	Rainfall . .	49	*For* "10·96" *read* "10·06."
lxxxiv	Do. . .	I	Bogra . .	Elevation of bar.,etc.	3	*For* "61" *read* "75"
lxxxiv	Do. . .	I	Do. . .	Pressure . .	6	*For* "29·654" *read* "29·668."
lxxxviii	Do. . .	I	Khushab . .	Wind direction .	34	*For* "N 11° E" *read* "N 12° E."
lxxxix	Do. . .	I	Karwar . .	Rainfall . .	46 and 47	*For* "3·60 and —3·60" *read* "3·60 and —3 60", respectively.
xci	Do. . .	I	Bangalore . .	Do. . .	48, 50, 51 and 53.	*For* "1·34, —2·38, 1·34 and —2·38" *read* "1·36, —2·36, 1·36 and —2·36", respectively.
xcvi	Do. . .	II	Rangoon . .	Elevation of bar., etc.	3	*For* "57" *read* "36."
xcvi	Do. . .	II	Do. . .	Pressure . .	8 and 9	*For* "—·023 and ·709" *read* "—·044 and ·686", respectively.
xcvii	Do. . .	I	Diamond Island .	Rainfall . .	53	*For* "21·41" *read* "22·54."
xcvii	Do. . .	II	Belgaum . .	Rainfall . .	54	*For* "2·1" *read* "2·12."
xcviii	Do. . .	II	Pudukkottai .	Temperature of air	11, 12, 14, 15 and 18	*For* "80·7, †† 22·0, 74·8, 33·8, and 91·8††" *read* "80 6,†† 22·1, 74·7, 33·6, and 91·7††", respectively.
xcix	Do. . .		Darjeeling . .	Humidity . .	29	*For* "5" *read* "85."
cii	June 1906 . .	I	Rangoon . .	Elevation of bar., etc.	3	*For* "57" *read* "36".
cii	Do. . .	I	Chittagong . .	Temperature of air	12 to 20, 22 and 24.	*For* "80·2, 86·7, +0·1, 76·5, —0·1, 81 6, 0, 10·2, 92·2, 72·6 and 19·6" *read* "79·7, 87·1, +0·5, 76·3, —0·3, 81·7, +0·1, 10·8, 92·6, 72·4 and 20·2", respectively.
cii	Do. . .	I	Akyab . . .	Rainfall . .	48, 50, 51 and 53.	*For* "51·23, +6·44, 57·46 and +0·79" *read* "51·55, +6·76, 57·79, and +1·09", respectively.

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Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
ciii	June 1906	I	Chittagong	Hygrometry	39 to 42	*For* "85, — 1, ·876 and — ·046" *read* "87, + 1, 883 and — ·089", respectively.
civ	Do.		Bogra	Elevation of bar., etc.	3	*For* "61" *read* "75".
civ	Do.	I	Do.	Pressure, etc.	6	*For* "29·597" *read* "29·611."
cvi	Do.	I	Dehra Dun	Temperature of air	15 to 19 and 22 to 24.	*For* "73·8, — 0·6, 84·1, + 0·4, 20·5, 57·0, 10th and 48·5" *read* "74·2, — 0·2, 84·3, + 0·5, 20·1, 65·5, 19th and 49·0", respectively.
cvi	Do.	I	Neemuch	Elevation of bar., etc.	3	*For* "1·630" *read* "1·624."
cvii	Do.	I	Dera Ismail Khan	Wind velocity	35, 37 and 38	*Read* "?" for the figures.
cviii	Do.	I	Sholapur	Temperature of air	13, 14, 17, 18 and 19.	*For* "94·2, — 0·6, 84·4, + 0·4 and 19·7" *read* "93·9, — 0·9, 84·2, + 0·2 and 19·4" respectively.
cviii	Do.	I	Nagpur	Do.	15, 16, 18, 19, 22 and 24.	*For* "78·8, + 0·3, — 0·5, 18·2, 72·1 and 36·6" *read* "78·7, + 0·2, — 0·6, 18·3, 70·6 and 38·1", respectively.
cxvi	Do.	II	Rangoon	Elevation of bar., etc.	3	*For* "57" *read* "36".
cxvii	Do.	II	Akyab	Rainfall	53	*For* "51·18" *read* "51·55."
cxvii	Do.	II	Pudukkottai	Temperature of air	11, 12, 14, 15 and 18.	*For* "79·3, 19·7, 70·3, 33·5 and 89·2" *read* "79·2, 19·8, 70·2, 33·6 and 89·1", respectively.
cxviii	Do.	II	Kalabagh	Do.	13	*For* "00·2" *read* "60·2."
cxviii	Do.	II	Simla (Ridge)	Do.	17	*For* "09·9" *read* "89·9."
cxviii	Do.	II	Katmandu	Temperature, wet bulb.	20	*For* "64·2" *read* "54·1."
cxviii	Do.	II	Chikalda	Do.	20	*For* "04·9" *read* "64·9."
cxviii	Do.	II	Aden	Temperature of air	11, 12, 14, 15, 18 and 19.	*Read* "?" for the figures.
cxviii	Do.	II	Do.	Temperature, wet bulb.	20 and 23	*Read* "?" for the figures.
cxix	Do.	II	Salem	Humidity	29	*For* "84" *read* "85".
cxix	Do.	II	Aden	Vapour tension	24, 27 and 28	*Read* "?" for the figures.
cxix	Do.	II	Do.	Humidity	29, 32 and 33	*Read* "?" for the figures.
cxxii	July 1906	I	Port Blair	Temperature of air	13, 14, 17 to 20 and 24.	*For* "85·9, + 0·5, 82·1, + 0·7, 7·7, 89·1, and 13·6" *read* "85·5, + 0·1, 81·9, + 0·5, 7·3, 88·7 and 13·2", respectively.
cxxiii	Do.	I	Akyab	Rainfall	51 and 53	*For* "101·54 and —7·75" *read* "101·57 and—7·42," respectively.
cxxiv	Do.	I	Bogra	Elevation of bar., etc.	3	*For* "61" *read* "75".
cxxiv	Do.	I	Do.	Pressure, etc.	6	*For* "29·522" *read* "29·536."
cxxiv	Do.	I	Purnea	Elevation of bar., etc.	3	*For* "125" *read* "123."
cxxvi	Do.	I	Jamnagar	Temperature of air	13 and 19	*For* "93·0° and 13·9" *read* "90·3° and 11·2", respectively.
cxxvii	Do.	I	Dera Ismail Khan	Wind velocity	35, 37 and 38	*Read* "?" for the figures.
cxxvii	Do.	I	Khushab	Wind direction	34	*For* "N. 39° E." *read* "N. 49° E."
cxxx	Do.	I	.....	Number of rainfall division.	1	*Read* "30" against Leh instead of against Chaman.

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Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
cxxx	July 1906 . .	I	Parachinar . .	Pressure, etc. .	4 and 6	*For* "24·256 and 24·223" *read* "24·253 and 24·220", respectively.
cxxxi	Do. . .	I	Chaman . .	Rainfall . .	49 and 50	*For* "0·30 and — 0·30" *read* "0·14 and — 0·14", respectively.
cxxxii	Do. . .	I	Kailang . .	Pressure, etc. .	4 and 6 to 11	*Omit* all the figures.
cxxxii	Do. . .	I	Sarain . .	Do. . .	4	*For* "23·016" *read* "23·013."
cxxxii	Do. . .	I	Muktesar . .	.....	Number of rainfall division.	*Read* "25 against Muktesar instead of against Chakrata.
cxxxii	Do. . .	I	Do. . .	Pressure, etc. .	4 and 6	*For* "22·672 and 22·630" *read* "22·673 and 22·631", respectively.
cxxxii	Do. . .	I	Pachmarhi . .	Temperature of air	13, 14, 17, 18 and 19.	*For* "76·9, + 1·1, 72·6, + 0·6 and 8·7" *read* "76·5, + 0·7, 72·4, + 0·4 and 8·3", respectively.
cxxxii	Do. . .	I	.....	Number of rainfall division.	1	*Read* 57 against Kodaikanal and 34 against Ootacamund.
cxxxii	Do. . .	I	Kabul . . .	Pressure, etc. .	4, 6, 7, 8 and 11	*For* "24·005, 24·064, 24·204, 3rd and ·204" *read* "24·105†, 24·074†, 24·236, 4th and ·236", respectively.
cxxxii	Do. .	II	Saugor Island .	Wind velocity .	51	*For* "441" *read* "438."
cxxxvii	Do. . .	II	Do. . .	Rainfall . .	53 and 54	*For* "8·17 and 1·82" *read* "10·38 and 2·64", respectively.
cxxxviii	Do. . .	II	Pudukkottai .	Temperature of air	11, 12, 14, 15 and 18.	*For* "78·0, 18·2, 74·6, 27·9 and 87·1," *read* "78·4, 17·8, 75·0, 27·5 and 87·3," respectively.
cxxxvi	Do. . .	II	Aden . . .	Do. .	11, 12, 14, 15, 18 and 19.	*Read* "?" for the figures.
cxxxviii	Do. . .	II	Do. . . .	Temperature, wet bulb.	20 and 23	*Read* "?" for the figures.
cxxxix	Do. . .	II	Do. . . .	Vapour tension .	24, 27 and 28	Ditto.
cxxxix	Do. . .	II	Do. . . .	Humidity . .	29, 32 and 33	Ditto.
cxli	August 1906 . .	I	Myitkyina . .	Pressure . .	6	*For* "29·681" *read* "29·713†".
cxliv	Do. . .	I	Purnea . . .	Elevation of bar., etc.	3	*For* "125" *read* "123".
cxlv	Do. . .	I	Ludhiana . .	Temperature of air	20 and 24	*For* "97·5 and 23·4" *read* "98·1 and 24·0," respectively.
cxlvi	Do. . .	I	Indore . . .	Do. .	18	*For* "+ 0." *read* "+ 0·4."
cxlvi	Do. . .	I	Jodhpur . .	Do. .	21	*For* "23rd and 1st" *read* "23rd and 31st" respectively.
cxlvii	Do.		Dera Ismail Khan	Wind velocity .	35, 37 and 38	*Read* "?" for the figures.
cxlix	Do. . .	I	Mangalore . .	Hygrometry .	41	*For* "·361" *read* "·861."
cli	Do. . .	I	Cuddapah . .	Heaviest rainfall during month.	54	*For* "1·1" *read* "1·81."
cliii	Do. . .	I	Chakrata . .	Rainfall . .	48, 50, 51 and 53.	*For* "30·47, + 11·29, 59·68, and + 9·23" *read* "30·78, + 11·60, 59·99 and + 9·54", respectively.
lvi	Do. . .	II	Ludhiana . .	Pressure . .	9	*For* "·546" *read* "·547‡".
clvi	Do. . .	II	Do. . .	Temperature of air	10, 12, 16, 18 and 19.	*For* "90·1, 12·2, 84·3, 82·3 and — 3·0" *read* "90·2, 12·3, 84·7‡, 82·9 and — 2·9", respectively.
vii	Do. . .	II	Do. . .	Vapour tension .	25	*For* "·927" *read* "·928‡".
clvi	Do. . .	II	Do. . .	Humidity . .	30, 32 and 33	*For* "79, 83 and + 3" *read* "78‡, 82 and + 7," respectively.

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Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
clvii	August 1906 . .	II	Ludhiana . .	Rainfall . .	53	*For* "6·92" *read* "6·87."
clviii	Do. . .	II	Pudukkottai .	Temperature of air	11, 12, 14, 15 and 18.	*For* "75·4, 17·2, 69·4, 29·0 and 83·0" read "75·0, 16·6, 70·0, 28·4 and 83·3" respectively.
clviii	Do. . .	II	Chakrata . .	Temperature, wet bulb.	21	*For* "2·8" *read* "62·8."
clix	Do. . .	II	Madras . .	Vapour tension .	26	*For* "·16" *read* "·916."
clix	Do. . .	II	Mount Abu . .	Wind direction .	47	*For* "S. 3° W." *read* "S. 33° W."
clix	Do. . .	II	Pachmarhi . .	Do. .	47	*For* "0 W." *read* "S. 88° W."
clix	Do. . .	II	Chikalda . .	Do. . .	47	*For* "N. 21°" *read* "N. 21° W."
clix	Do. . .	II	Port Victoria (Seychelles).	Humidity . .	29	*For* "6" *read* "76."
clxii	September 1906 .	I	.....	Number of rainfall division.	1	*Insert* "10" against Jessore.
clxiv	Do. .	I	Purnea . .	Elevation of bar., etc.	3	*For* "125" *read* "123."
clxvii	Do. .	I	Ludhiana . .	Rainfall . .	48, 50, 51 and 53.	*For* "6·29, + 2·68, 17·89 and — 4·97." *read* "6·31 + 2·70, 17·91 and — 4·95", respectively.
clxvii	Do. .	I	Dera Ismail Khan.	Wind velocity .	35, 37, and 38	*Read* "f" for the figures.
clxx	Do. .	I	Mercara . .	Temperature of air	23	*For* "2 h." *read* "23h."
clxxi	Do. .	I	Negapatam . .	Heaviest rainfall during the month.	54	*For* "0·59" *read* "0·74."
clxxii	Do. .	I	Kashgar . .	Temperature of air	15 to 19	*For* "58·2, + 1·3, 71·7, + 2·5 and 27·1," *read* "58·8 + 1·5, 71·8, + 2·6 and 27·0", respectively.
clxxiii	Do. .	I	Chakrata . .	Rainfall . .	51 and 53	*For* "74·03 and + 17·48" *read* "74·34 and +17·79", respectively.
clxxvi	Do. .	II	Jacobabad . .	Pressure . .	4 to 9	*For* "29·522, 29·413, ·109, 29·469, —·004 and ·611" *read* "29·527, 29·411, ·116, 29·470, —·003 and ·612", respectively.
clxxvi	Do. .	II	Do. . .	Temperature of air	10, 12, 13, 15 18 and 19.	*For* "102·9, 24·2, 103·2, 36·7, 89·8, and + 1·9" *read* "103·0, 24·3, 103·4, 36·9, 89·9 and + 1·1", respectively.
clxxviii	Do. .	II	Mysore . .	Temperature of air	14	*For* "59" *read* "59·3."
clxxviii	Do. .	II	Pudukkottai .	Temperature of air	11, 12, 14, 15 and 18.	*For* "75·5, 20·6, 70·5, 29·8 and 85·8" *read* "76·3, 19·8, 71·3, 29·0 and 86·2", respectively.
clxxviii	Do. .	II	Dodabetta . .	Temperature wet bulb.	20 and 23	*Insert* "46·5 and 49·5", respectively.
clxxviii	Do. .	II	Aden . . .	Pressure . .	4 to 9	*For* "29·754, 29·635, ·119, 29·689, +·007 and 99·712" *read* "29·754‡, 29·630†, ·124, 29·686, +·004 and 29·704§" respectively.
clxxviii	Do. .	II	Do. . .	Temperature of air	17	*For* "91·1" *read* "90·9‖."
clxxviii	Do. .	II	Do. . . .	Temperature, wet-bulb.	20, 22 and 23	*For* "64·7, 77·3 and 73·7" *read* "73·4 (a), 77·5‖ and 76·7" respectively.
clxxix	Do. .	II	Salem . . .	Rainfall . .	53	*For* "2·20" *read* "2·50."
clxxix	Do. .	II	Dodabetta . .	Vapour tension .	24 and 27	*Insert* "·311 and ·335" respectively.
clxxix	Do. .	II	Do. .	Humidity . .	29 and 32	*Insert* "96 and 88" respectively.
clxxix	Do. .	II	Aden . . .	Vapour tension .	24 and 26 to 28.	*For* "·471, ·754, ·711 and —·148" *read* "·713 (G), ·822§, ·815 and —·044" respectively.
clxxix	Do. .	II	Do . . .	Humidity . .	29 and 31 to 33.	*For* "47, 52, 55 and —11" *re* "64 (G), 58§, 62 and —4," respectively.

Corrigenda in the India Monthly Weather Reviews for the year 1906—*contd.*

TABLE I AND II.

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
clxxix	September 1906 .	II	.....	.....	...	*Insert* foot note " (a) mean of 11 days."
clxxxi	October 1906 .	I	Calcutta (Alipore)	Temperature of air	21	*Insert* 6th.
clxxxvii	Do. . .	I	Dera Ismail Khan.	Wind velocity ...	35, 37 and 38	*Read* "?" for the figures.
cxciii	Do. . .	I	Minicoy . .	Rainfall . .	49 and 50	*Insert* "7·46 and + 2·47" respectively.
cxvi	November 1906 .	I	Veraval . . .	Station . .	2	*For* "Verava" *read* "Veraval."
cxvii	Do. .	I	Dera Ismail Khan	Wind velocity .	35, 37 and 38	*Read* "?" for the figures.
cxx	Do. .	I	Salem . . .	Temperature of air	13, 14, 17 to 21 and 24.	*For* "87·0, — 0·3, 78 4, + 0·5, 17·2, 94·7, 5th and 30·8" *read* "87·3, 0, 78·6, + 0·7, 17·5, 93·2, 6th and 29·3," respectively.
cxxii	Do. .	I	Kashgar . .	Do. do. .	12, 13, 14, 17 to 21 and 24.	*For* "32·4, 51·7, — 0·3, 39·4, — 1·1, 24·7, 71·3, 1st and 51·0" *read* "31·9°, 49·7§, — 1·8, 38·1§, — 1·3, 22·7, 61·4, 19th and 41·1," respectively.
cxxiii	Do. .	I	Pharijong . .	Wind velocity .	35 and 38	*For* "8·0 and 6·7" *read* "8·5°° and 7·1°°," respectively.
cxxiii	Do. .	I	Teheran . .	Rainfall . .	48	*For* "1·83" *read* "1·85."
cxxiii	Do. .	I	Minicoy . .	Do. . .	49 and 50	*Insert* "4·15 and + 0·05" respectively.
cxxxii	December 1906 .	I	Bhamo . .	Temperature of air	23	*Insert* "21st."
cxxxii	Do. .	I	Barisal . . .	Do. do. .	15 to 19	*For* "58·3, + 2·2, 68·8, + 2·0 and 21·0" *read* "58·1° + 2·0, 68·7, + 1·9 and 21·2," respectively.
cxxxiv	Do. .	I	Dehri . . .	Do. do. .	23	*Insert* "25th."
cxxxiv	Do. .	I	Darbhanga . .	Do. do. .	23	*For* "2t 5h" *read* "25th."
cxxxvi	Do. .	I	Bikaner . .	Do. do. .	23	*Insert* "22nd."
cxxxvii	Do. .	I	Dera Ismail Khan	Wind velocity .	35, 37 and 38	*Read* "?" for the figures.
cxxxviii	Do. .	I	Raichur . .	Temperature of air	23	*For* "18t *b*" *read* "18th."
cxxxviii	Do. .	I	Cochin . . .	Elevation of bar., etc.	3	*For* "10" *read* "7."
cxxxxii	Do. .	I	Pachmarhi . .	Temperature of air	19	*For* "27·4" *read* "26·7."
cxxxxii	Do. .	I	Meshed . .	Do do.	12	*For* "40·1" *read* "39·5°."
cxxxxii	Do. .	I	Teheran . .	Pressure, etc. .	4	*For* "25·942¶, (*b*)" *read* "25·942° (*b*)."
cxxxxii	Do. .	I	Do. . .	Temperature of air	12 to 18	*For* "39·4,¶ 53·1, + 1·6, 36·1, + 2·0, 44·6, and + 1·8" *read* "39·4,° "53·2, + 1·9, 36·2, + 2·3, 44·7 and + 2·1" respectively.
cxxxxii	Do. .	I	Zanzibar (Dunga)	Do. do.	12	*For* "78·6" *read* "78·9°."
cxxxxiii	Do. .	I	Meshed . .	Hygrometry . .	39 and 41	*For* "83 and ·210" *read* "·84° and ·211°" respectively.
cxxxxiii	Do. .	I	Teheran . .	Wind direction .	27 and 34	*For* "11 and N. 12° E" *read* "12 and N. 14° E," respectively.
cxxxxiii	Do. .	I	Do. . . .	Wind velocity .	35 and 38	*For* "4·2 and 3·6" *read* "4·0 and 3·5" respectively.
cxxxxiii	Do. .	I	Do. . . .	Hygrometry . .	39 and 41	*For* "·82¶ and ·203¶" *read* "·82° and ·20·2°" respectively.
cxxxxiii	Do. .	I	Do. . . .	Cloud . . .	43	*For* "8·7¶" *read* "8·4°."
cxxxxiii	Do. .	I	Zanzibar . .	Rainfall . .	50	*For* "— 10·07" *read* "+ 10·07."
cxxxxiii	Do. .	I	Zanzibar, (Dunga)	Hygrometry . .	39 and 41	*For* "91 and ·894" *read* "·91° and ·900°," respectively.

Corrigenda in the India Monthly Weather Reviews for the year 1906—*concld.*

TABLE I AND II.

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
cclxxxvii	December 1906	II	Ludhiana . .	Rainfall . .	53 and 54	*For* "0·45 and 0·45" *read* "1·44 and 1·30," respectively.
cclxxxviii	Do.	II	Pachmarhi . .	Temperature of air	11, 12, 14, 15, 18 and 19.	*For* "46·0, 26·3, 40·5, 35·0, 58·3 and + 1·2," *read* "45·7, 26·6, 39·6, 35·9, 58·2 and + 1·1" respectively.
cclxxxviii	Do.	II	Port Victoria (Seychelles).	Temperature, wet bulb . . .	22 and 23	*For* "75·7 and 74·2" *read* "75·4 and 74·1," respectively.
cclxxxix	Do.	II	Pachmarhi . .	Vapour tension .	24, 27 and 28	*For* "·210, ·290 and + ·008" *read* "·213, ·291 and + ·009," respectively.
cclxxxix	Do.	II	Do. . .	Humidity . .	29	*For* "66" *read* "68."
cclxxxix	Do.	II	Port Victoria (Seychelles.	Vapour tension .	26 to 28	*For* "·325, ·314 and — ·018" *read* "·311, ·309 and — ·023," respectively.
cclxxxix	Do.	II	Port Victoria (Seychelles).	Humidity . .	31	*For* "78" *read* "77."

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LIST OF PLATES.

PLATE I.—A chart of India shewing the 11 meteorological provinces and 57 districts of India.

PLATE II.—A chart of India shewing normal monthly rainfall and the departure from normal of the actual monthly rainfall, January and February 1906. This chart and the three following charts have been prepared to illustrate the data given in Table XXX. These charts are drawn up in the same manner as the rainfall chart (Plate VIII) in the Monthly Weather Reviews of the year 1906.

PLATE III.—A chart of India shewing normal monthly rainfall and the departure from normal of the actual monthly rainfall, March to May 1906.

PLATE IV.—A chart of India shewing normal monthly rainfall and the departure from normal of the actual monthly rainfall, June to October 1906.

PLATE V.—A chart of India shewing normal monthly rainfall and the departure from normal of the actual monthly rainfall, November and December 1906.

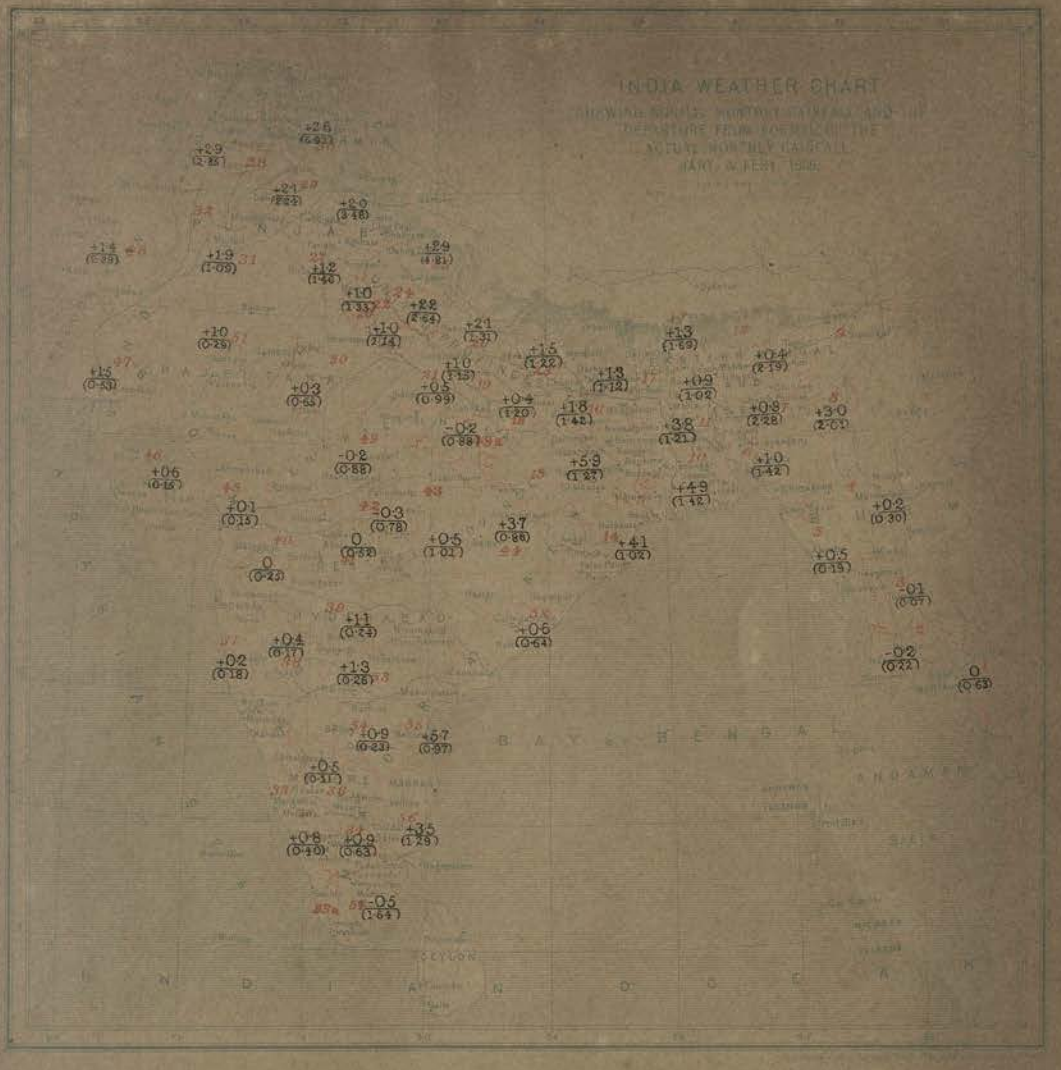
PLATE VI.—A chart shewing tracks of the more important cyclonic storms of 1905 in the Indian area during the south-west monsoon, a brief summary of which is given on pages 173 to 174.

PLATE VI (*b*).—Chart shewing tracks of the more important cyclonic storms of 1906 in the Indian area during the south-west monsoon, a brief summary of which is given on pages 174 to 175.

The country is divided into 57 districts, over each of which the meteorological conditions are fairly uniform, and the staple crops similar in character. The name of the district can be ascertained by referring in the following list to the number given in each district in red figures.

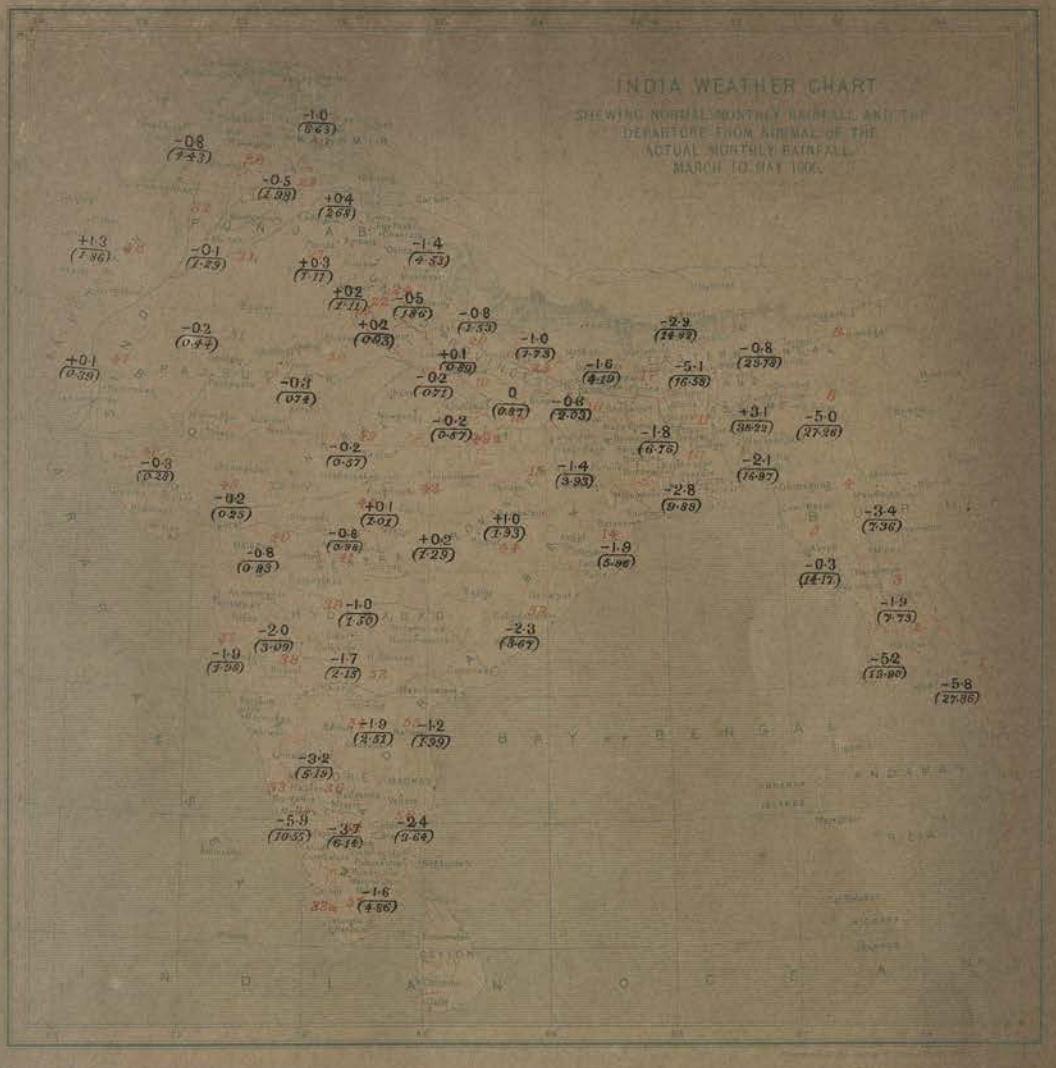
1. Tenasserim
2. Lower Burma Deltaic
3. Central do.
4. Upper do.
5. Arakan
6. East Bengal
7. Assam, Surma
8. Do., Hills
9. Do., Brahmaputra
10. Deltaic Bengal
11. Central do.
12. North do.
13. Bengal Hills
14. Orissa
15. Chota Nagpur
16. South Bihar
17. North Bihar
18. United Provinces, East
19. South Oudh
20. North do.
21. U. Provs., Central
22. Do., West
23. Do., East Submontane
24. Do., West do.
25. Do., Hills
26. South East Punjab
27. South do.
28. Central do.
29. Punjab Submontane
30. Do., Hills
31. West Punjab
32. North West Frontier Province
33. Malabar
33a. Travancore
34. Madras, South Central
35. Coorg
36. Mysore
37. Konkan
38. Bombay Deccan
39. Hyderabad, North
40. Khandesh
41. Berar
42. Central Provinces, West
43. Do., Central
44. Do., East
45. Gujarat, East
46. Kathiawar and Cutch
47. Sind
48. Baluchistan Hills
49. Central India, West
49a. Do., East
50. Rajputana, East
51. Do., West
52. Madras, East Coast, North
53. Hyderabad, South
54. Madras, Central
55. Do., East Coast, Central
56. Do., East Coast, South
57. Do., South

No. 888 E. H. O. Observatories—Jan. 08—40



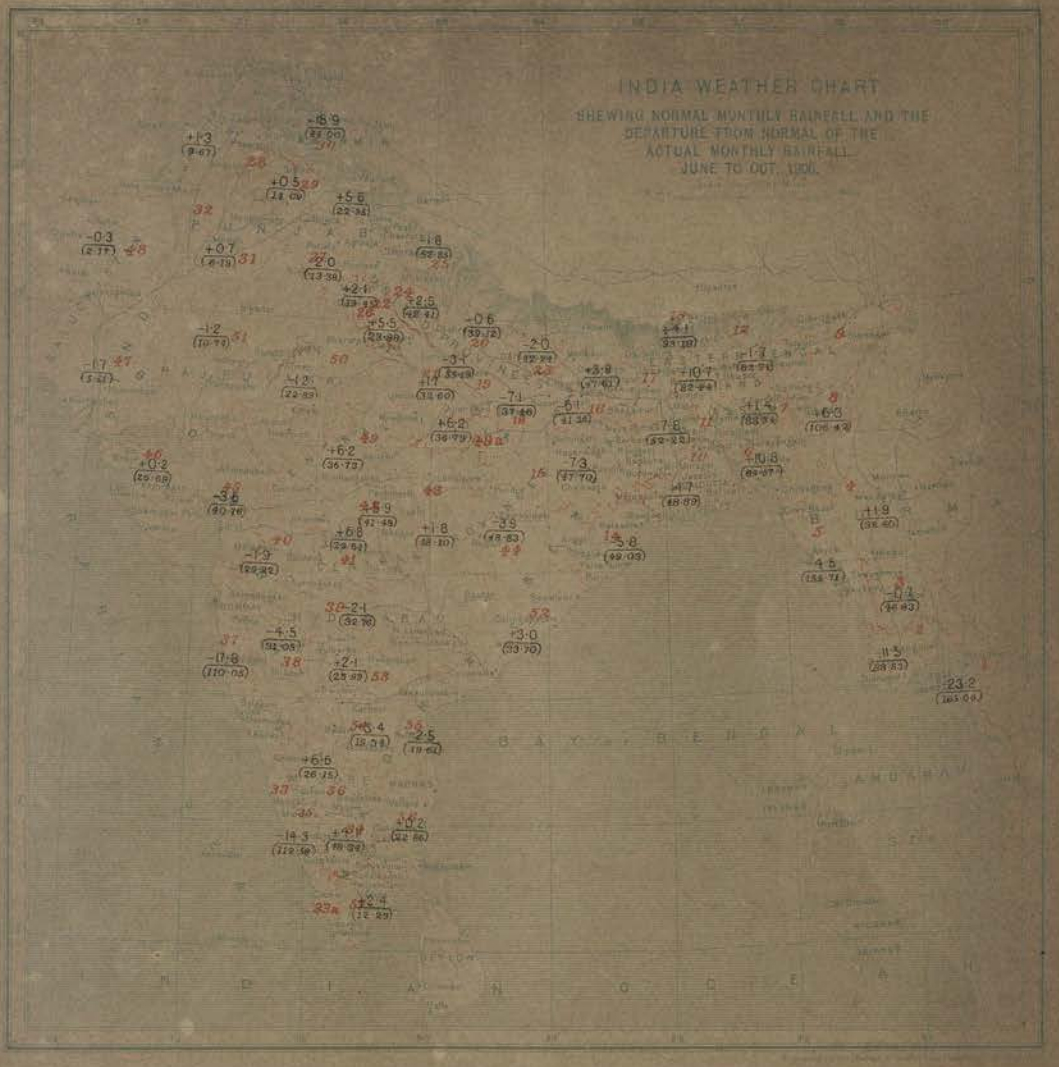
The country is divided into 67 areas, over each of which the meteorological conditions are fairly uniform and the single [illegible] of character. The numbers in bracket on the chart give the average over the division of the normal monthly rainfall; the numbers above these give the departure from these normals of the average actual rainfall over the division. The name of the district can be [illegible] by referring in the following list to the number given in each district in red figures.

1. Transcaspia
2. Lower Burma Deltaic
3. Central do.
4. Upper do.
5. Arakan
6. E. Bengal
7. Assam, Surma
8. Do., Hills
9. Do., Brahmaputra
10. Deltaic Bengal
11. Central do.
12. North do.
13. Bengal Hills
14. Orissa
15. Chota Nagpur
16. South Bihar
17. North Bihar
18. United Provinces, East
19. South Oudh
20. North do.
21. U. Provs., Central
22. Do., West
23. Do., East Submontane
24. Do., West do.
25. Do., Hills
26. South East Punjab
27. South do.
28. Central do.
29. Punjab Submontane
30. Do., Hills
31. West Punjab
32. North West Frontier Cement
33. Malabar
34. Travancore
35. Madras, South Central
36. Coorg
37. Mysore
38. Kanara
39. Bombay Deccan
40. Bombay, North
41. Khandesh
42. Bombay Central, West
43. Do., East
44. Do., East
45. Gujarat, East
46. Kathiawar and Cutch
47. Sind
48. Baluchistan Hills
49. Central India, West
50. Do., East
51. Rajputana, East
52. Do., West
53. Madras, East Coast, North
54. Hyderabad, South
55. Madras, Central
56. Do., East Coast, Central
57. Do., South



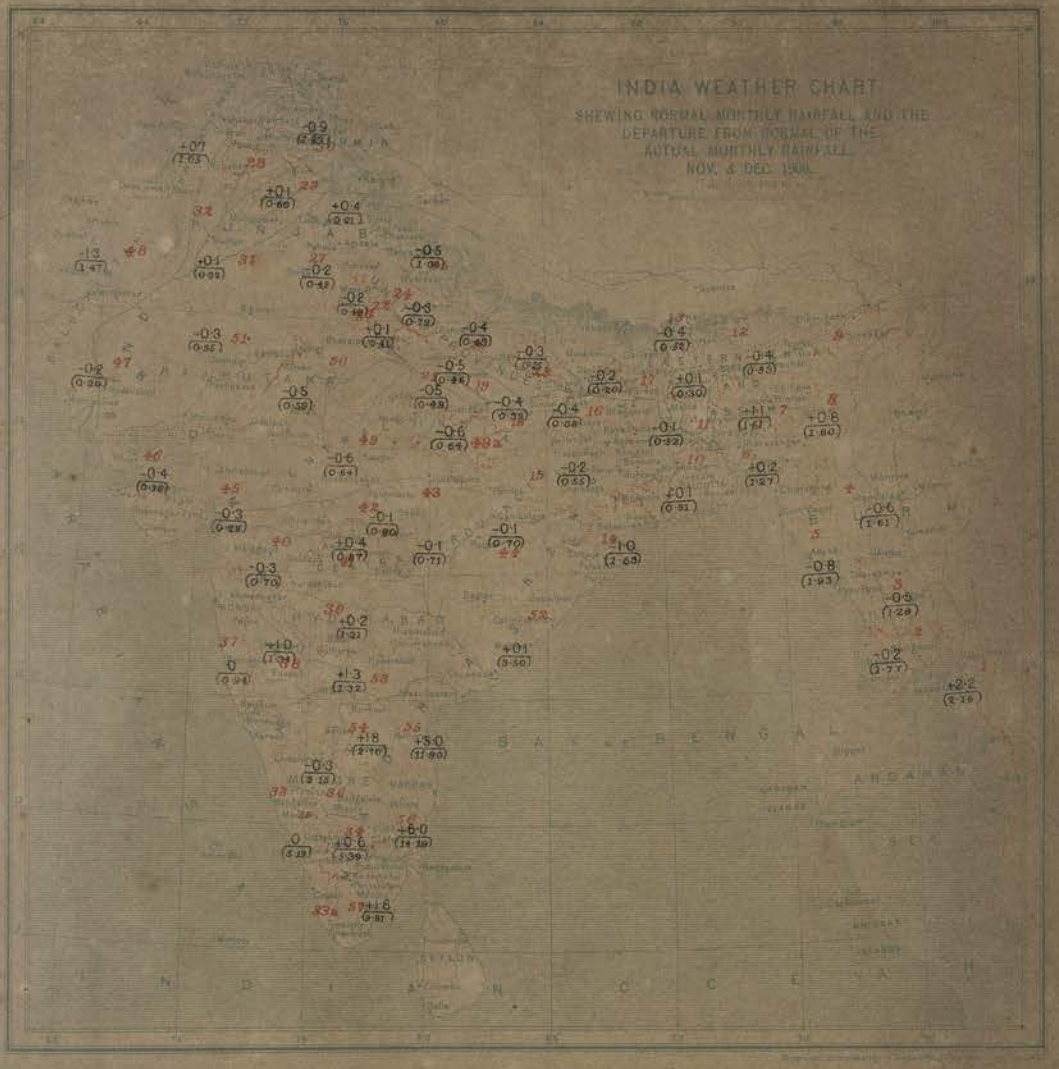
The country is divided into 57 areas, over each of which the meteorological conditions are fairly uniform, and the staple crops [illegible] character. The numbers in bracket on the chart give the average over the division of the normal monthly rainfall; the numbers [illegible] these give the departure from these normals of the average actual rainfall over the division. The name of the district can be [illegible] by referring in the following list to the number given in each district in red figures.

1. Tenasserim
2. Lower Burma Delta
3. Central do.
4. Upper do.
5. Malabar
6. East Bengal
7. Assam
8. Do. Hill
9. Do. Brahmaputra
10. Bihar
11. Gangetic
12. North do.
13. Bengal Hill
14. Orissa
15. Central Bengal
16. South Bihar
17. North Bihar
18. United Provinces, East
19. South Oudh
20. North do.
21. U. Provs., Central
22. Do. West
23. Do. East Submontane
24. Do. West do.
25. Do. Hills
26. South East Punjab
27. South do.
28. Central do.
29. Punjab, Submontane
30. Do. Hills
31. West Punjab
32. North West Frontier Province
33. Malabar
34. Tuticorin
35. Madras, South Central
36. Coorg
37. Kanara
38. Bombay Deccan
39. Hyderabad, North
40. Khandesh
41. Berar
42. Central Provinces, West
43. Do. Central
44. Do. East
45. Gujarat, East
46. Kathiawar and Cutch
47. Sind
48. Baluchistan Hills
49. Central India, West
50. Do. East
51. Rajputana, East
52. Do. West
53. Madras, East Coast, North
54. Hyderabad, South
55. Madras, Central
56. Do. East Coast, Central
57. Do. South


INDIA WEATHER CHART
SHEWING NORMAL MONTHLY RAINFALL AND THE DEPARTURE FROM NORMAL OF THE ACTUAL MONTHLY RAINFALL JUNE TO OCT. 1906.

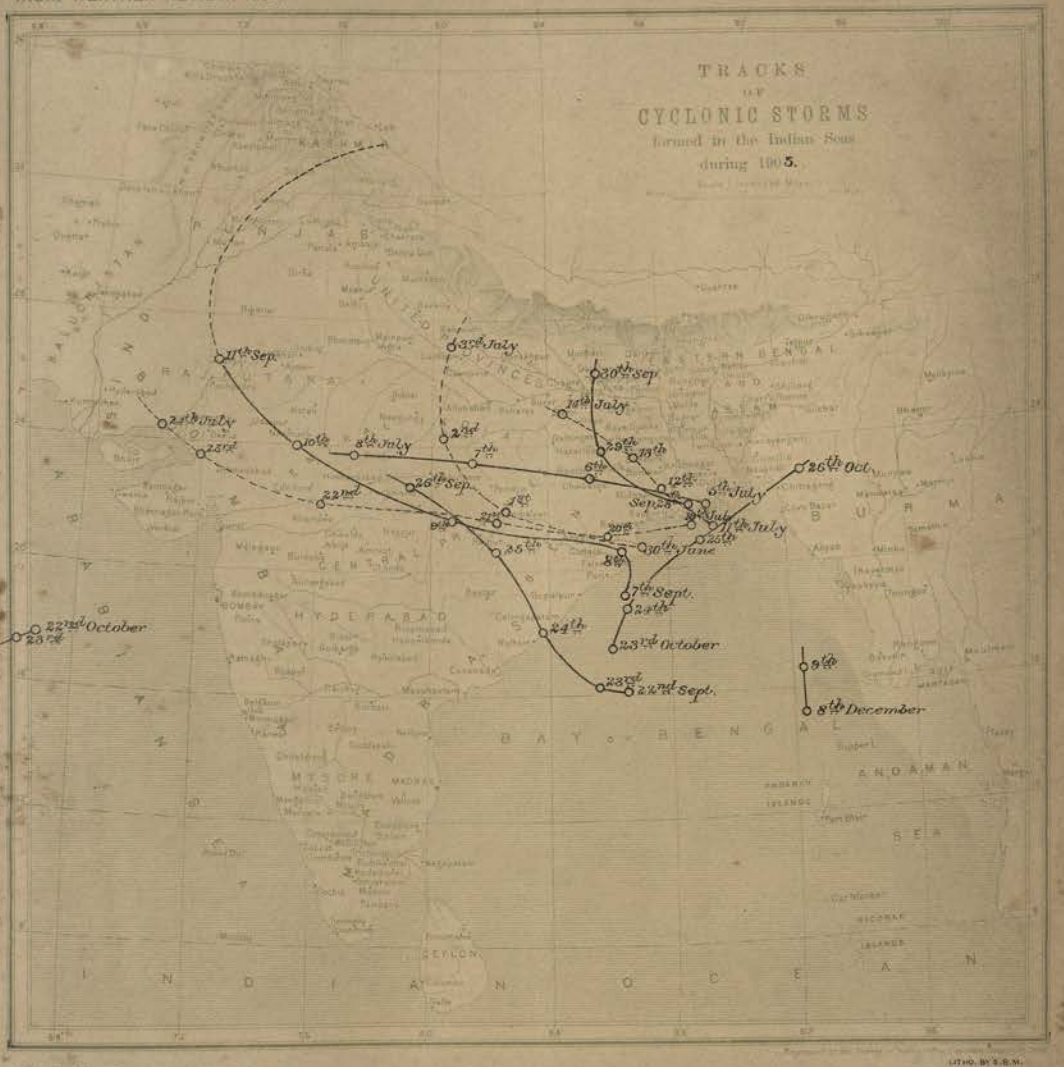
The country is divided into 47 areas over each of which the meteorological conditions are fairly uniform, and the rainfall over each is approximately the same. The numbers in brackets on the chart give the average over the division of the normal monthly rainfall : the numbers above these give the departure from the normals of the average actual rainfall over the division. The name of the district can be ascertained by referring in the following list to the number given to each district in red figures.

1. Travancore.	17. North Bihar.	33. Malabar.	49. Baluchistan Hills.
2. Jeypore Hill Tracts.	18. United Provinces, East.	33a. Laccadive Islands.	50. Punjab Plains, West.
3. Carnatic.	19. Southern India.	34. Madras, South Coast.	51. Punjab Hills, West.
4. Deccan.	20. North Deccan.	35. Coorg.	52. Baluchistan, East.
5. Konkan.	21. Deccan, Central.	36. Mysore.	53. Punjab, West.
6. Gujarat.	22. Deccan, West.	37. Konkan.	54. Madras, West Coast, North.
7. East Bengal.	23. Deccan, East.	38. Bombay Decca.	55. Hyderabad, South.
8. Assam Valley.	24. Deccan, East Submontane.	39. Hyderabad, North.	56. Madras, Central.
9. Deccan, Hills.	25. Deccan, West Submontane.	40. Chanda.	57. Punjab Plains, Central.
10. Deccan, Rain Shadow.	26. Deccan, Hills.	41. Berar.	58. Punjab Hills, Central.
11. Orissa Coast.	27. South East Punjab.	42. Central Provinces, West.	59. Punjab Plains, East.
12. Central Bengal.	28. South Plateau.	43. Satpura.	60. Punjab Hills, East.
13. North Bengal.	29. Central Plateau.	44. Satpura, East.	61. Punjab, East.
14. Assam Hills.	30. Punjab, Submontane.	45. Vindhyan Plateau.	62. Rajputana, East.
15. Orissa Hills.	31. Deccan, Plateau.	46. Vindhyan Plateau, East.	63. Rajputana, West.
16. Chota Nagpur.	32. West Punjab.	47. Malwa.	
16a. South Shan.	32. North West Frontier Province.		


INDIA WEATHER CHART
SHEWING NORMAL MONTHLY RAINFALL AND THE DEPARTURE FROM NORMAL OF THE ACTUAL MONTHLY RAINFALL.
NOV. & DEC. 1906.

The country is divided into 37 areas, over each of which the meteorological conditions are fairly uniform and the displacements normal in character. The numbers in bracket on the chart give the average from the division of the normal monthly rainfall: the numbers above these give the departure from these normals of the average actual rainfall over the division. The name of the district can be ascertained by referring in the following list to the number given in each district in red figures.

1. Peninsular
2. Lower Burma (Delta)
3. Central do.
4. Upper do.
5. Arakan
6. East Bengal
7. Assam Valley
8. Khasi Hills
9. Do. Hill
10. Dooars Bengal
11. Central do.
12. North do.
13. Orissa
14. Chota Nagpur
15. South Behar
16. North do.
17. North Behar
18. United Provinces, East
19. South do.
20. North do.
21. W. Provs., Central
22. Do., West
23. Do., East Submontane
24. Do., West do.
25. Do., Hill
26. South East Central
27. South do.
28. Central do.
29. Punjab, Submontane
30. Do., Hill
31. West Rajputana
32. North West Frontier Provin
33. Malabar
33a. Travancore
34. Madras, South Central
35. Coast
36. Mysore
37. Konkan
38. Deccan Decan
39. Hyderabad, South
40. Do., North
41. Berars
42. Central Provinces, West
43. Do., Central
44. Do., East
45. Gujarat, East
46. Kathiawar and Cutch
47. Sind
48. Baluchistan Hills
49. Central Indus Valley
49a. Do., East
50. Rajputana, East
51. Do., West
52. Madras, East Coast, South
53. Hyderabad, South
54. Madras, Central
55. Do., East Coast, Central
56. Do., East Coast, South
57. Do., South


TRACKS
OF
CYCLONIC STORMS
formed in the Indian Seas
during 1905.
11th Sep.
3rd July
30th Sep.
14th July
24th July
25rd
10th
8th July
2nd
7th
29th
18th
6th
12th
26th Oct.
26th Sep.
22nd
1st
5th July
Sep. 28
21st
20th
11th July
25th
30th June
8th
25th
7th Sept.
24th
24th
23rd October
22nd October
23rd
24th
23rd
22nd Sept.
9th
8th December
BAY OF BENGAL
ANDAMAN SEA
INDIAN OCEAN
BURMA
HYDERABAD
CENTRAL PROVINCES
UNITED PROVINCES
MYSORE
MADRAS
CEYLON
BOMBAY
KASHMIR
PUNJAB
RAJPUTANA
BALUCHISTAN
ANDAMAN ISLANDS
NICOBAR ISLANDS

LITHO. BY S.R.M.

The track of the storm of the 30th October to the 3rd November was a straight line along the parallel of latitude 12½° North: the positions of the centre upon this line on the successive days were:-

30th October	*58°E*
31st Do.	*57°E*
1st November	*55¾°E*
2nd Do.	*55°E*
3rd Do.	*53¼°E*

LITHO. BY S.E.M.

GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT.

INDIA WEATHER REVIEW.

ANNUAL SUMMARY, 1907.

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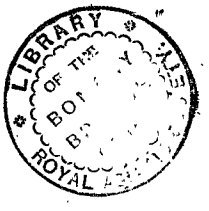

UNDER THE DIRECTION OF

GILBERT T. WALKER, M.A., Sc.D., F.R.S.,

DIRECTOR GENERAL OF OBSERVATORIES.

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1908.

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METEOROLOGICAL DEPARTMENT.

THE

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FOR THE YEAR

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ANNUAL SUMMARY, 1907.

INTRODUCTION.

Several systems of territorial division of India have come into use from time to time for meteorological purposes, each having been adopted to meet the needs of some particular set of data. A certain amount of confusion has been found to result from the consequent want of uniformity of boundaries, and, with a view of obviating the inconvenience caused, the Government of India have recently authorised the adoption of the following single system of division which may now be considered as standardised :—

Chief political divisions.	Sub-divisions.
Burma	Bay Islands
	Lower Burma.
	Upper Burma.
Eastern Bengal and Assam	Assam.
	Eastern Bengal.
Bengal	Bengal.
	Orissa.
	Chota Nagpur.
	Bihar.
United Provinces	United Provinces, East.
	United Provinces, West.
Punjab	Punjab, East and North.
	Punjab, South-west.
	Kashmir.
North-West Frontier Province	North-West Frontier Province.
	Baluchistan.
Sind	Sind.
Rajputana	Rajputana, West.
	Rajputana, East.
Bombay	Gujarat.
	Konkan.
	Bombay Deccan.
Central India	Central India, West.
	Central India, East.
Central Provinces	Berar.
	Central Provinces, West.
	Central Provinces, East.
Hyderabad	Hyderabad, North.
	Hyderabad, South.
Mysore	Mysore.
Madras	Malabar.
	Madras, South-east.
	Madras, Deccan.
	Madras Coast, North.

The new system of division is illustrated in Plate I at the end of this Annual Summary.

With regard to the main tables of numerical data at the end of this issue, it is necessary to point out that a deviation from previous practice has been adopted and is henceforward to be followed. Hitherto two tables only have been published, numbered I and II, Table I containing data of 3rd class, and Table II those of 2nd and 1st class stations. These are now interchanged and named Tables A and B, and a third table, Table C, is added which contains the data, temperature and rainfall chiefly, from 4th class stations.

In the present issue, additional tables, Tables 17, 41, 79, 80, 95, 108 and 109 are given arranged as in previous years; these, considered in conjunction with the tables prepared upon the new basis, provide the necessary means for connecting corresponding data on the two bases of arrangement, and thus of comparing past years with future ones.

The data of Table B in the monthly reviews and in the present annual part are obtained, with a few exceptions, from the observations telegraphed daily to Simla for publication in the Daily Weather Report. In the case of thermometric observations, they are telegraphed to the nearest half degree. Hence the maximum and minimum temperature data of the second class observatories derived from these telegraphic reports and given in Table B, occasionally differ to some slight extent from the means of the more exact data (recorded to the tenth of a degree) tabulated in the observation forms sent to the Calcutta Office, and used in the calculation of the mean temperature data in Table A. There is also another reason why the data of mean maxima and minima in Tables A and B differ to a slight extent. In Table B the daily or 24-hour period is assumed to end at 8 hrs. and in Table A at midnight [except for rainfall the period of which ends at 8 hrs.], and hence the maximum temperature in Table B for any month of 31 days at any station gives the mean for 31 periods of 24 hours ending at 8 hrs. of the 31st, and in Table A for the same number of 24 hour periods ending at midnight on the 31st, and hence virtually of a monthly period one day in advance of the former. Similarly for months of 28, 29 or 30 days. These remarks will explain some of the slight discrepancies which may be found between the maximum and minimum temperature mean data in Tables A and B, and hence also in the monthly mean departure data given in these tables in the monthly reviews and Annual Summary.

Solar, Magnetic and Seismic Activity.

Report from Kodaikanal Observatory.

The first five months of the year were favourable for solar observations. September and December were also favourable, but the remaining five months were distinctly unfavourable. There were only thirteen days in the year on which no observations were possible. The following table shows for each month the observations that were made :—

A = Spots Observed. B = Spot Spectra. C = Prominences. D = Photoheliograms. E = Spectroheliograms.

TABLE 1.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
A	30	28	31	30	31	29	29	30	30	29	27	28	352
B	26	27	18	11	7	4	4	4	10	6	4	8	129
C	27	28	31	29	31	22	22	18	27	24	18	28	305
D	29	28	31	30	31	25	23	30	27	29	23	28	335
E	*	28	31	28	31	24	23	25	30	29	23	28	309

* Siderostat had been dismantled for the erection of a new sliding roof.

Sunspots.—The following table shows the monthly number of new groups observed, the mean daily number of spots visible, and the distribution between the northern and southern hemispheres :—

TABLE 2.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
New groups . .	30	32	28	33	18	17	20	22	36	30	18	17	301
Daily number .	5·9	7·1	5·3	5·3	3·1	2·7	3·1	4·3	6·0	4·9	4·0	3·7	4·6
North . . .	25	17	16	10	8	6	8	8	18	17	7	5	145
South . . .	5	15	12	23	10	11	12	14	18	13	11	12	156

The total number of new groups seen during the year was 301 against 297 last year. On no day was the sun's surface observed to be free from spots. There were seventeen days on which only one group was visible. Ten groups or more were visible on five days.

The distribution of the groups between the two hemispheres was more nearly equal this year than during the preceding years. For seven months there were more spots in the southern than in the northern hemisphere.

The mean daily number of groups varied from 2·7 in June to 7·1 in February and the average for the year was 4·6. The mean latitude of the spots was 10°·9 in the northern hemisphere and 12°·4 in the southern. There were four groups within 1° and four other groups within 2° of the equator.

Prominences.—The general activity of the two hemispheres for all classes of prominences, as compared with the previous year, may be inferred from the following table :—

Mean daily profile areas of Prominences.

	1906.	1907.
North	2·51 square minutes.	1·92 square minutes.
South	2·17 „ „	2·27 „ „
Total	4·68 „ „	4·19 „ „

It is seen from the above that the general reduction of activity in 1907 is confined to the northern hemisphere, the southern showing a slight increase. In the latitude distribution a remarkable difference is shown between the two hemispheres, which are usually more or less symmetrical as regards the latitudes of the zones of maxima and minima. From the beginning of the year the northern polar prominences, which were strongly represented during 1906, practically ceased to exist, whilst the south polar region still continued active, the whole region between −45° and the south pole producing a very considerable number of large prominences. The region

from latitude — 10° to — 45° has been the most prolific, however, in this hemisphere; but no clearly marked zones of maxima are shown. In the north, on the other hand, two well-defined maxima occur in the zones + 25° to + 30° and + 50° to + 55°.

Metallic prominences were of frequent occurrence, 111 having been recorded. Of these, 54 were confined to the northern spot zone, and had a mean latitude of + 15°·7, 50 were confined to the southern spot zone, with a mean latitude of — 15°·6, the remaining 7 were distributed in longitude in a narrow zone entirely outside the spot regions, the mean latitude being — 72°. The only metallic elements observed in these high latitude prominences were Na, Mg, and Fe, whilst some of the prominences in spot-latitudes gave, in addition, the lines of Ba and Ca, together with a considerable number of unidentified lines, probably including Ni, Mn, Cr, and Ti.

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The Alibagh (Bombay) Magnetic Record.

The mean values of the magnetic elements obtained from all days in the year are as follow :—

Easterly declination	... ...	1° 3′·8
Horizontal force	... ...	0·36862 C.G.S. unit
Vertical force	... ...	0·15843 " "
Inclination (calculated)	... ...	23°15′·5
Inclination (observed twice a week)	...	23°14′·5

During the year there were 122 calm days; 211 days of small, 29 days of moderate and 3 days of great disturbance; the same for the year 1906 were 134, 213, 17 and 1 respectively. The largest disturbance during the year was recorded between February 9d 19h and 10d 10h. The disturbance commenced at about 19·1h with a small sudden rise of force followed by a gradual fall equivalent to about 271γ., till the minimum was attained at about 0·7h, about 5½ hours after the commencement. Normal conditions were attained at about 10 hrs. of the following day.

The following is a list of days selected as "quiet" for the purposes of the Magnetic Survey of India during the year :—

TABLE 3.

Months.	Selected quiet days.				
January 1907	3	4	19	21	29
February "	4	5	6	19	27
March "	5	9	18	23	27
April "	2	9	19	24	30
May "	2	8	9	27	30
June "	2	3	16	27	29
July "	13	14	16	17	20
August "	6	7	12	27	28
September "	3	9	14	23	24
October "	5	7	18	19	31
November "	1	5	18	20	30
December "	3	9	17	23	24

The following table prepared in accordance with the suggestions made by the International Commission, Terrestrial Magnetism, represents the magnetic character of each day during the year :—

TABLE 4.

1907	MONTH.											
Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	1	1	1	0	0	1	1	2	1	2	0	0
2	1	1	1	0	0	0	1	1	0	1	1	0
3	0	1	0	0	1	0	1	1	0	1	1	0
4	0	0	1	0	1	1	1	1	1	0	1	1
5	2	0	0	1	1	0	1	1	1	0	0	1
6	1	0	1	1	1	1	1	0	1	0	1	1
7	1	2	1	1	1	1	1	0	1	0	1	1
8	2	2	1	0	0	0	1	1	0	1	1	1
9	2	2	0	0	0	1	1	1	0	1	1	0
10	1	2	2	0	1	1	1	1	2	0	1	0
11	2	2	1	1	1	1	2	1	1	1	1	1
12	1	2	2	1	1	1	1	0	1	0	1	1
13	1	1	1	1	1	1	0	0	1	2	0	1
14	1	2	0	1	1	0	0	1	0	2	0	0
15	2	1	0	1	1	0	0	1	0	2	1	0
16	1	1	0	1	1	0	0	1	1	1	1	0
17	1	1	0	1	1	0	0	1	2	1	0	0
18	1	1	0	1	1	1	0	1	1	0	0	0
19	0	0	1	1	1	2	0	1	1	0	0	0
20	1	1	0	0	1	1	0	1	1	1	0	1
21	0	1	1	0	1	1	0	1	1	1	2	0
22	1	1	2	0	1	2	1	1	0	2	2	0

TABLE 4—*concld.*

1907.	MONTH.											
Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
23	1	1	1	1	0	1	0	1	0	1	1	0
24	1	1	0	0	1	1	0	1	0	1	0	0
25	1	1	1	0	1	1	2	1	1	1	0	0
26	1	1	0	1	0	0	1	1	1	1	1	1
27	1	0	0	1	0	1	1	0	1	2	1	1
28	1	1	1	1	1	1	1	0	1	1	1	1
29	0	...	1	1	2	0	1	0	1	1	0	0
30	1	...	0	0	0	1	0	2	1	1	0	1
31	1	...	0	...	1	...	1	1	...	0	...	0
M	31	30	29	17	24	22	21	26	23	23	20	13

In the above table 0 represents calm day.
" " " 1 " small disturbance.
" " " 2 " larger "

Table 5 gives the corrected monthly mean absolute values of the several magnetic elements as also the summed ranges of the horizontal force. In Table 6 will be found a list of seismic disturbances and in Table 7 movements in the magnetograph traces suspected to be due to seismic causes indicating sudden strain.

TABLE 5.—*Monthly values of magnetic elements.*

Months, 1907.	ABSOLUTE VALUES OF					Horizontal force summed ranges (smoothed).
	Horizontal force in C. G. S. unit.	Vertical force in C. G. S. unit.	Inclination.	Easterly declination.	Horizontal force summed ranges.	
1	2	3	4	5	6	7
			° ′	° ′ ″		
January	0·36861	0·15797	23 11·9	1 4 39	·00266	·00300
February	·36842	·15806	13·2	1 4 32	·00285	·00299
March	·36863	·15812	13·0	1 4 34	·00284	·00305
April	·36869	·15829	14·2	1 4 7	·00413	·00310
May	·36866	·15837	14·9	1 3 59	·00304	·00315
June	·36871	·15839	14·9	1 3 26	·00349	·00323
July	·36866	·15849	15·3	1 3 26	·00294	·00326
August	·36868	·15844	15·4	1 3 35	·00311	·00323
September	·36859	·15856	16·8	1 3 22	·00328	·00318
October	·36853	·15871	18·0	1 3 24	·00307	·00314
November	·36861	·15876	18·1	1 3 9	·00319	·00313
December	·36868	·15900	19·7	1 3 0	·00279	·00314

As referred to in the last year's report, figures in column 7 of smoothed summed ranges show that the second maximum in the diffused conditions of the maximum of 1905-1907 was reached in July 1907.

TABLE 6.—*Disturbances recorded by Milne's Seismograph at Colaba.*

Date 1907.	P. T. Commencement.	Max.	End.	Max. amplitude.	Duration.	REMARKS.
	H. M.	H. M.	H. M.	M.M.	H. M.	
January 1	0 54·5	1 4·9	1 49·0	0·6	0 54·5	
„ 2	12 23·6	13 14·0	...*	1·8	...*	*End lost in shifting time.
„ 4	5 25·5	...*	8 44·5	...*	3 19·0	*As the traces overlap max. amplitude cannot be found.
„ 8	5 49·2	6 20·1	7 7·2	0·5	1 19·0	
„ 12	8 38·6	8 47·2	9 8·9	0·4	0 30·3	
„ 19	13 42·8	13 45·3	14 6·4	0·5	0 23·6	
February 9	4 48·9	4 50·6	5 4·8	0·5	0 15·9	
„ 24	7 53·4	8 2·5	8 33·2	0·5	0 39·8	
March 29	20 54·6	21 15·8	21 51·1	1·0	0 56·5	
„ 31	22 19·6	22 29·3	23 22·4	1·2	1 2·8	
April 15	6 28·6	7 43·5	9 11·4	7·0	2 42·8	
„ 18	21 15·9	21 30·3	22 54·7	3·5	1 38·8	
„ 19	0 8·5	0 24·9	1 32·4	3·0	1 23·9	
„ 26	19 17·2	19 27·1	19 37·3	0·3	0 20·1	
May 4	8 49·3	9 17·7	9 33·1	0·5	0 43·8	
„ 7	10 46·1	10 50·1	...*	0·5	...*	*End lost in tremors.
„ 25	12 6·4	12 23·5	13 11·0	0·5	1 4·6	
„ „	14 20·4	14 37·4	15 12·3	0·9	0 51·9	
June 1	9 57·1	10 15·0	11 0·6	1·2	1 3·5	
„ 5	4 32·6	5	5 37·6	1·0	1 5·0	
„ 10	19 2·5	19 33·3	19 58·3	0·7	0 55·8	
„ 25	18 1·7	18 16·2	19 7·2	1·3	1 5·5	
July 9	19 11·8	19 33·5	20 1·8	0·8	0 50·0	
„ 12	17 22·0	17 24·0	17 36·5	1·0	0 14·5	
„ 20	13 54·9	14 16·1	14 34·2	2·0	0 39·3	
„ 29	19 47·0	20 3·1	20 24·4	0·4	0 37·4	
August 5	7 55·9	8 1·6	8 20·4	0·5	0 24·5	
„ 17	17 43·6	18 16·5	18 46·6	0·5	1 3·0	
September 2	16 24·3	16 48·1	...*	7·3	...*	*End cannot be determined.
„ „	...*	18 34·5	19 31·5	1·5	...*	*Beginning cannot be determined.
October 4	10 41·1	10 51·7	11 35·5	2·1	0 54·4	
„ 11	14 52·1	15 23·4	...	0·9	...	*End lost in shifting time.
„ 16	14 58·8	...*	16 14·5	...*	1 15·7	*Maximum lost in shifting time.
„ 21	4 23·6	...*	6 58·3	...*	2 35·7	*As the traces overlap max. amplitude cannot be determined.
„ 27	5 24·8	5 30·2	5 59·2	3·1	0 34·4	
November 16	22 29·3	22 35·1	22 50·3	0·4	0 22·5	
„ 21	20 3·8	20 18·7	21 17·2	6·8	1 8·4	
„ 23	6 19·4	6 22·3	6 33·4	0·5	0 14·0	
„ 24	14 16·4	14 29·2	14 59·3	0·4	0 42·9	
December 5	12 53·5	12 59·8	13 19·3	0·3	0 25·8	
„ 30	6 49·1*	7 0·3	7 39·3	2·2	0 50·2	*Beginning uncertain as it is mixed up with tremors.

All times given above denote G. M. T.

TABLE 7.—*List of movements in the magnetograph traces suspected to be due to seismic causes.*

Date 1907.	Hour.	Duration in hours.	Date 1907.	Hour.	Duration in hours.
January 8	17	6	June 3	23	18
March 10	5	13	July 28	0	6

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Solar Radiation.

It was stated in the Annual Report of 1889 that the observations of black bulb solar thermometers are liable to large and irregular changes which make them unfit for accurate observations. The instruments were accordingly withdrawn from use, except at the following stations:—

Srinagar.	Allahabad.	Leh.
Simla.	Calcutta (Alipore).	Ootacamund.
Lahore.	Bombay.	Aden.
Jodhpur.		

Observations of the solar thermometers were made during the year 1907 at all these stations with the exception of Aden where the thermometers were put of use in 1903. The monthly averages of past years and the departures from them of the data of 1907 are given in Tables 8 and 9 and the mean comparative data for the past eighteen years in Table 10.

TABLE 8.—*Average excess of mean monthly and annual maximum insolation over the corresponding maximum shade temperatures.*

STATION.	Years of observations used.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
		°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	1902-07	38·3	41·0	45·2	51·4	52·6	53·6	53·2	49·3	44·4	42·1	38·0	31·6	44·7
Simla	1890-07	61·5	64·4	66·5	68·7	67·9	62·6	49·7	48·1	60·5	70·1	68·1	64·0	62·7
Lahore	Do.	47·8	53·4	55·4	56·4	52·6	49·9	51·7	54·2	52·8	51·6	49·4	46·7	51·8
Jodhpur	1897-07	52·5	54·9	56·7	56·7	54·2	53·3	56·1	56·5	55·8	53·1	51·5	50·4	54·3
Allahabad	1890-07	57·5	58·1	58·5	57·6	56·5	56·8	57·0	56·9	56·9	56·0	56·8	57·2	57·3
Calcutta (Alipore)	Do.	51·3	52·8	53·4	53·7	53·7	52·1	53·2	54·2	55·4	54·4	52·1	51·4	53·2
Bombay	Do.	49·8	50·9	50·2	50·4	50·6	46·0	42·0	45·8	48·6	49·8	49·7	49·4	48·6
Leh	Do.	65·8	73·4	72·5	71·4	68·4	66·4	64·7	65·1	65·5	66·4	64·9	63·7	67·3
Ootacamund	1903-07	70·9	72·2	72·9	71·8	69·9	63·3	62·7	66·7	72·2	69·6	69·9	69·0	69·3
Aden	1890-02	51·5	52·6	51·8	48·0	45·6	41·1	42·0	44·9	49·6	52·4	50·6	50·2	48·4

TABLE 9.—*Departures from the averages of Table 8 of mean monthly and annual excess of sun over shade temperatures in 1907.*

STATION.	Number of years that the instrument, the observations of which are utilized for this comparison, has been in use.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
		°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	3	−5·4	−6·4	−4·6	−3·6	+0·8	−0·3	−3·1	−6·5	−0·9	−4·8	−4·6	−3·5	−3·6
Simla	3	+8·9	−8·9	−6·4	−5·1	−1·0	+4·2	+8·5	−2·2	+11·8	+1·6	+3·5	+7·9	+1·9
Lahore	22	−3·4	−5·9	−4·2	−4·0	−2·3	−0·7	−1·6	−1·8	−5·8	−4·7	−4·2	−3·5	−3·6
Jodhpur	10	−2·4	−1·8	−0·1	−0·2	+0·1	+1·6	−1·3	−1·2	−0·4	+0·1	+0·2	+0·6	−0·4
Allahabad	5	−1·9	−0·2	+0·5	+3·0	+2·7	+2·8	+3·2	+1·7	−2·3	−0·6	+0·4	+1·7	+0·9
Calcutta (Alipore).	5	−2·7	−2·5	−1·9	+0·4	−3·2	−4·8	−2·6	0	−0·4	−2·2	−2·2	−2·8	−2·1
Bombay	22	−4·2	−2·8	−3·6	−6·5	−4·1	−3·7	−5·6	−8·2	−1·6	−2·8	−1·6	−0·4	−3·8
Leh	12	−1·4	−3·5	−1·2	−5·6	−0·5	−1·1	−0·6	−3·3	−0·9	−2·3	−5·4	−4·6	−2·5
Ootacamund	2	−6·2	−6·3	−5·0	−4·8	−5·7	−0·9	−10·9	−15·9	−4·7	−6·0	−6·1	−4·7	−6·4

TABLE 10.—*Departures from normal of the annual mean excess of sun over shade temperature for each year of the period 1890-1907.*

STATION.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.
	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	?	?	?	?	?	?	?	?	?	?	?	?	−1·8	−0·4	+2·1	−3·1	−2·4	−3·6
Simla	+2·0	+2·5	+2·2	+1·6	+0·2	+1·2	+0·2	−1·1	+1·1	+2·7	−3·1	−1·2	−3·0	−5·1	−0·9	+2·5	−2·1	+1·9
Lahore	+3·6	+2·9	+2·0	+1·5	+0·7	+0·6	+0·4	+0·6	+0·2	−1·5	−1·1	−2·6	−2·9	−2·6	−3·0	−5·0	−2·7	−3·6
Jodhpur	?	?	?	?	?	?	?	+1·7	+0·5	−0·9	−0·6	−0·5	−0·3	−0·3	−0·5	−0·7	−0·2	−0·4
Allahabad	+0·9	+0·9	−0·3	−0·1	+0·3	−0·2	+0·6	+1·1	−0·4	−0·7	−0·6	−0·4	−0·7	−0·1	+1·6	+0·4	+0·1	+0·9
Calcutta (Alipore)	+1·6	+1·5	+1·5	+0·9	+0·9	+1·8	+0·3	−1·3	+0·8	−2·1	−3·2	−1·6	−0·8	−0·7	−0·6	−0·4	−1·5	−2·1
Bombay	+1·5	0	+0·4	+1·0	+0·4	+0·7	+1·0	+1·1	−0·4	−1·1	−1·0	−0·7	−0·9	−1·3	+0·1	+0·1	−2·2	−3·8
Leh	?	+5·2	+3·4	+0·4	+1·3	+0·5	−0·2	+0·4	−2·3	−0·2	−2·1	−0·2	−1·6	−2·4	−3·4	−2·3	−3·5	−2·5
Ootacamund	?	?	?	?	?	?	?	?	?	?	?	?	?	?	−0·5	?	?	−6·4
Aden	+4·0	+4·8	+3·7	+0·9	+0·2	+0·5	−2·5	−4·7	−4·5	−0·9	−2·3	+0·7	?	?	?	?	?	?

The following table shows, in absolute measure, the value of solar radiation as measured at Simla by means of Angström's electric compensation Pyrheliometer :—

Table II.

1907.	Intensity in gramme-calories per sq. cm. per min.			Number of days of observation.
	Maximum.	Minimum.	Mean.	
January	1·57	1·41	1·49	10
February	.....	.....	1·53	1
March	1·57	1·45	1·52	3
April	1·55	1·47	1·51	3
May	.....	.....	1·42	1
June	1·39	1·22	1·33	8
July	1·29	1·23	1·26	3
August	.....	.....	.....	0
September	.....	.....	.....	0
October	1·49	1·43	1·49	2
November	1·60	1·38	1·46	18
December	1·58	1·34	1·43	15

Nocturnal Radiation

It was stated in the Annual Report of 1890 that the observations of the terrestrial radiation thermometers in India were nearly as unsatisfactory as those of the solar radiation thermometers. Observations of these instruments were recorded during the year 1907 at the following stations :—

Srinagar.	Jodhpur.	Bombay.
Simla.	Allahabad.	Leh.
Lahore	Calcutta (Alipore).	Ootacamund.

The following table, TABLE 12, gives the average data of past years for the above stations; TABLE 13 the departures from the normal; and TABLE 14 the mean annual departure data for the past eighteen years.

TABLE 12.—*Average depression of mean monthly and annual nocturnal radiation temperatures below mean minimum shade temperatures.*

STATION.	Number of years observations used.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
		°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	9—14	7·7	8·3	9·2	8·6	9·2	9·3	9·0	8·6	12·0	11·6	11·3	11·2	9·7
Simla	17	4·1	3·3	3·4	5·5	4·1	3·5	2·8	2·1	3·3	4·4	4·5	4·8	3·8
Lahore	30—31	9·5	9·1	8·5	9·1	8·7	6·1	3·9	4·1	6·4	9·6	10·5	9·9	8·0
Jodhpur	10—12	9·1	8·7	8·2	7·8	4·9	2·3	1·7	1·9	4·5	9·7	10·7	9·9	6·6
Allahabad	30—31	11·0	11·4	12·5	12·3	9·0	5·1	3·1	2·6	4·2	9·2	12·4	12·3	8·8
Calcutta (Alipore)	30—31	7·7	7·1	5·9	4·5	3·0	2·1	1·8	1·9	2·5	4·5	6·7	8·1	4·7
Bombay	32	9·8	9·2	8·1	6·5	4·6	2·8	2·1	2·4	3·1	6·4	9·6	10·4	6·3
Leh	23—25	9·8	9·1	10·5	11·1	10·9	11·3	9·8	10·5	11·6	14·3	14·9	11·7	11·3
Ootacamund	4—5	5·6	5·6	4·8	4·4	3·7	2·3	2·0	2·5	2·5	3·1	3·4	5·2	3·8

TABLE 13.—*Departures from the averages of Table 12 of mean monthly and annual depression of nocturnal radiation temperatures in 1907.*

STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	+2·6	+1·7	+2·6	+5·7	+5·5	+4·9	−0·4	+4·2	−2·1	−0·8	−1·8	−3·2	+1·6
Simla	−2·6	−1·3	−1·2	−2·3	+0·1	+0·4	+0·3	−0·1	−0·3	+1·0	+0·9	+1·3	−0·3
Lahore	+1·7	−0·8	−0·2	−1·5	+0·8	+2·1	+3·9	+0·6	+2·3	+2·2	+2·8	+3·2	+1·2
Jodhpur	+0·6	−0·3	+2·5	+0·8	+0·5	+0·6	+0·7	−0·3	+1·8	+2·1	+2·2	+2·5	+1·1
Allahabad	+0·8	−3·1	+0·9	−2·6	+2·7	+1·2	−0·3	−0·7	+2·3	+4·3	+3·1	+3·9	+1·0
Calcutta (Alipore)	−2·1	−2·1	−1·3	−0·5	+0·4	+0·3	+0·4	+0·2	+0·1	−0·3	−0·8	−2·1	−0·7
Bombay	−2·0	−2·3	−1·6	−1·7	−0·5	+0·2	+0·4	0	+0·2	−1·1	−0·2	−0·2	−0·2
Leh	−8·4	−5·2	−6·0	−3·9	−2·6	−2·5	−1·8	−2·4	−3·7	−4·9	−3·1	−3·5	−4·2
Ootacamund	+0·2	+0·2	−0·3	0	+0·5	+0·6	+1·0	+0·7	+1·0	+0·4	−0·1	+1·6	+0·5

TABLE 14.—*Departures from normal of the mean annual depression of nocturnal radiation temperatures.*

STATION.	1890.	1891.	1892.	1893	1894.	1895.	1896.	1897.	1898	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.
	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	?	?	?	?	?	?	?	?	?	?	?	?	+1·2	0	−1·4	0	+4·4	+1·6
Simla	+0·1	−0·1	+1·0	−0·3	−0·7	?	−0·8	+0·8	−0·8	+0·1	+0·5	−0·2	+1·3	−1·2	−0·6	−1·1	−1·1	−0·3
Lahore	−1·2	−1·7	−0·9	−0·7	+0·7	+1·0	−0·3	−0·2	+1·0	+2·0	+2·2	+2·0	−1·0	+0·5	+0·4	+1·1	+0·9	+1·8
Jodhpur	?	?	?	?	?	?	?	+0·1	0	−0·1	−0·5	−0·1	+1·1	−0·6	−1·4	−0·9	−1·4	+1·1
Allahabad	−0·9	−0·6	0	−1·3	−1·2	+0·2	+1·0	+0·1	+1·2	+1·6	−0·9	+0·5	−1·1	+0·6	+0·9	+0·6	+0·2	+1·0
Calcutta (Alipore)	−0·3	+0·1	−0·1	−0·5	−0·1	+0·1	+0·4	+0·2	+0·2	−0·2	−2·2	−1·7	+0·7	−1·7	−1·1	−1·6	−1·7	−0·7
Bombay	+1·4	+2·5	+0·8	−1·0	−1·8	−1·2	+0·8	−0·3	−1·0	−0·6	−0·7	−1·1	−2·1	−1·2	−0·9	−0·6	−0·3	−0·7
Leh	+3·1	+3·4	+2·9	+0·4	−2·3	−2·8	−2·0	−2·4	−0·1	−0·4	−2·1	+0·7	−1·3	?	−1·0	?	−2·7	−4·2
Ootacamund	?	?	?	?	?	?	?	?	?	?	?	?	?	?	+0·1	+0·4	−0·4	+0·5

Temperature of the ground.

Observations of the temperature of the surface of the ground were recorded during the year 1907 at six stations, Lahore, Jaipur, Dehra Dun, Allahabad, Calcutta (Alipore) and Bombay; and of the temperature underground at Dehra Dun and Bombay.

The thermometers used for the purpose are verified standard mercurial thermometers with (attached) scales of porcelain, the scale being engraved also on the tube.

At Lahore and Jaipur the surface thermometer is read four times daily, at Allahabad at 6, 14, and 22 hrs., and at Calcutta at 13 hrs. 45 mins. At Dehra Dun all the five ground thermometers are read at 15 hrs. daily, and at Bombay the two nearest to the surface are read five times a day, the deeper instruments being read once only.

The thermometers below the surface have their bulbs protected with pointed copper shoes which rest on the ground at the bottom of a wooden tube, inserted to the specified depth and projecting six inches above the surface, the upper ends being closed by a cap of metal or wood. Those at depths of three feet or more are attached to the lower ends of stout wooden bars of about half the diameter of the tube. Those at one foot have a brass ring attached to the top of the wooden frame by which they are lifted; and in all these the lower part of the frame around the bulb has been cut away, and the lower end fitted with the copper shoe above mentioned.

The average monthly data are here given at length, but a paper published by Mr. R. Ll. Jones (Meteorological Memoirs, Vol. XV, Pt. III, 1904) makes it clear that the results of the measurement of underground temperatures lead to inconsistent results when analysed on the lines developed by Lord Kelvin. It may be that this is due to irregularities from percolation of rainfall as well as to imperfections in the mode of measurement.

Under these circumstances a table of departures from the average of past years is more likely to give indications of value than a statement of absolute temperatures recorded; such a table is therefore given below. The number of years included in the averages in the different cases lies between 21 and 27.

TABLE 15.—*Departures from normal of the mean monthly and annual temperatures of the air and of the ground in 1907.*

STATION.		January.	February.	March.	April	May	June.	July.	August.	September.	October.	November.	December.	YEAR.
		°	°	°	°	°	°	°	°	°	°	°	°	°
LAHORE	Air	+4·2	−1·0	−5·2	−4·0	−1·7	−1·8	+2·7	−0·6	+3·7	+2·5	+2·9	−0·7	+0·1
	Surface	+2·8	−1·7	−4·6	−4·2	−2·3	−1·4	+2·8	−3·8	+2·7	0	−1·7	−4·3	−0·3
JAIPUR	Air	+3·8	−1·9	−3·0	−3·5	−2·9	+2·5	+4·6	−1·7	−0·7	+1·2	+1·6	−1·4	−0·1
	Surface	+2·9	−3·2	−4·3	−3·2	−2·4	+3·6	+5·5	−3·6	+3·1	+0·8	+1·6	+1·6	−0·2
DEHRA DUN	Air	+2·9	−2·4	−0·1	−4·9	−2·1	+1·3	+3·3	+0·9	+2·3	+2·5	+2·7	+0·3	+0·1
	1·1 feet deep	+2·8	−0·4	−3·3	−3·6	+1·1	+3·9	+4·7	+1·7	+3·6	+5·0	+4·5	+1·4	+1·3
	3·2 „ „	+2·2	+0·4	−1·6	−3·1	−0·2	+2·0	+3·6	+1·6	+3·5	+4·7	+3·9	+2·0	+1·6
	6·4 „ „	+2·3	+2·5	+0·2	−1·4	−0·3	+0·6	+2·0	+0·9	+1·5	+2·1	+2·6	+1·7	+1·2
	12·8 „ „	+1·4	+1·5	+1·0	+0·2	−0·3	−0·3	−0·4	−0·4	+0·2	+0·5	+1·0	+1·5	+0·5
	25·6 „ „	+0·8	+0·9	+0·9	+0·7	+0·4	+0·2	+0·1	−0·4	−0·3	−0·1	+0·1	+0·4	+0·3
ALLAHABAD	Air	+2·6	−1·2	−4·1	−3·8	−1·8	+2·2	+6·5	0	+2·2	+2·8	+2·0	−1·7	+0·5
	Surface	+1·0	+0·4	−2·3	−2·6	−2·3	+2·6	+8·7	+0·9	+4·5	+0·2	−0·1	−3·3	+0·6
CALCUTTA (ALIPORE)	Air	+2·7	+0·9	−2·6	−2·0	+0·3	+0·2	+1·2	+1·1	+1·6	+1·9	+1·4	+0·4	+0·6
	Surface	+9·7	+4·4	−10·7	−10·4	−0·7	−2·3	+1·1	−1·7	−0·7	−3·3	+1·6	+5·0	−0·8
BOMBAY	Air	+2·3	+1·1	+0·6	+1·1	−0·1	+0·7	+0·4	−0·5	+1·1	+1·0	+2·3	+0·8	+0·9
	1 inch deep	+1·9	+0·5	+0·6	+0·8	+0·3	+1·1	+0·8	−0·1	+1·3	+1·2	+1·7	+0·1	+0·8
	9 inches „	+3·4	+2·4	+2·2	+2·3	+1·8	+2·5	+2·8	+2·5	+3·0	+2·8	+2·8	+1·8	+2·5
	1 foot 8 inches deep	+4·2	+4·0	+3·6	+3·6	+3·4	+3·3	+3·2	+3·3	+3·6	+3·3	+3·3	+2·7	+3·5
	3 feet deep	+3·2	+3·2	+3·1	+3·0	+2·6	+2·7	+2·4	+2·6	+2·7	+2·6	+2·7	+2·7	+2·8
	11 „	+2·5	+2·7	+2·7	+2·4	+2·1	+2·0	+1·6	+1·6	+1·9	+2·0	+2·2	+2·3	+2·2

Temperature.

The methods of exposing the thermometers at observatories in India were described in pages 18-19 of the Annual Report for 1890.

The method of deducing the daily and monthly means from the observed readings of the instruments was described in pages 6 and 7 of Monthly Weather Review for January 1907.

The departures from normal of the mean temperature of each month given in Table A of the monthly reviews are deduced by a comparison of the actual monthly means with the normal monthly means given in the "Indian Meteorological Memoirs," Vol. XVII, pages 16 to 24.

The departures obtained by a comparison of these normal means with the actual monthly means in Table A of the Monthly Weather Reviews for the year are given in Table 16.

The mean departures given in Table 17 of the Geographical Summary are derived from the departure data of Table A of the Monthly Weather Reviews of the year 1907.

In Table B, published in each Monthly Review, the mean temperature of the day is calculated, as in the Daily Weather Report, by the formula:—daily mean $= \frac{\text{maximum} + \text{minimum}}{2}$. It differs from the true daily mean by amounts varying slightly with the season. In Table B of the Monthly Weather Reviews of the year 1907 are given the departures from normal of the monthly means of daily maximum and minimum temperatures, as well as the departures of the monthly means of daily mean temperature given by the formula $\frac{1}{2}$ (maximum + minimum).

Normal monthly mean maxima and minima temperatures of 94 stations, calculated from the observations of the eleven years' period, 1878—1888, were given in the Annual Summary for 1891. The data for the years 1889—1893 were given in the 1894 Annual Summary, Tables I and II.

The additional data for the years 1894—1899 have been utilized to obtain what are probably slightly more accurate means than those published in the Annual Summary for 1894.

Tables 17 to 23 give summaries of the temperature departure data for each month of the year 1907 and for the year. In the first table (Table 17) the same division has been adopted as that employed in the Annual Reports from 1881 to 1890. This enables a comparison to be made of the temperature data of the year 1907 with those of previous years given in the Annual Reports. In the second set of tables [Tables 18, 19, and 20] the departure data are given for the fourteen chief political divisions, and in the last three tables (Tables 21 to 23) the data are given for the 34 sub-divisions.

TABLE. 16.—*Departure from normal of monthly and annual mean air temperatures in 1907.*

DIVISION.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
BURMA	Rangoon	+0·9	+1·1	−2·0	−0·7	−1·7	+0·1	+0·9	−0·5	+0·5	−0·2	+2·3	−0·8	0
BENGAL	Calcutta	+2·7	+0·9	−2·6	−2·0	+0·3	+0·2	+1·2	+1·1	+1·6	+1·9	+1·6	+0·4	+0·6
UNITED PROVINCES OF AGRA AND OUDH.	Allahabad	+2·6	−1·2	+4·1	−3·8	−1·3	+2·2	+6·5	0	+2·2	+2·8	+2·8	−1·2	+0·5
	Dehra Dun	+2·9	−2·4	−6·1	−4·9	−2·1	+1·3	+3·3	+0·9	+2·3	+2·5	+2·7	+0·3	+0·1
PUNJAB	Lahore	+4·2	−1·0	−5·2	−4·0	−1·7	−1·5	+2·7	−0·6	+2·7	+2·5	+2·9	−0·7	+0·1
RAJPUTANA	Jaipur	+3·3	−1·9	−3·0	−3·8	−2·9	+2·5	+4·6	−1·7	−0·7	+1·2	+1·6	−1·4	−0·1
BOMBAY	Bombay	+2·3	+1·1	+0·6	+1·1	−0·1	+0·7	+0·4	+0·5	+1·1	+1·0	+2·3	+0·6	+0·9
CENTRAL PROVINCES	Buldana	+1·0	−1·7	−1·9	−5·7	−0·2	+0·6	+5·3	−1·9	+2·2	+4·6	+3·2	−0·6	+0·4
	Nagpur	−0·2	−1·5	−2·9	−6·9	−2·0	+1·2	+1·6	−2·5	+0·9	+1·9	+1·5	−1·3	−0·9
HYDERABAD	Hyderabad	+0·7	+0·2	−1·1	−5·3	−0·8	0	+1·4	−1·6	+1·5	+2·2	+1·0	+0·5	+0·1
MYSORE	Bangalore	+0·9	+1·1	+0·1	−2·9	−0·2	−0·7	+0·3	−1·0	+1·2	+1·3	+1·2	+1·0	+0·2
	Mysore	0	+1·0	0	−2·5	+0·2	−0·6	+0·4	−1·9	+0·6	+0·7	+0·5	+0·3	−0·1
MADRAS	Madras	−0·7	−0·2	+0·5	−0·6	+1·7	+1·2	+0·1	+2·2	+1·4	−0·1	−0·6	−0·4	+0·4
STATION IN THE BAY	Port Blair	0	−0·9	−2·2	−0·4	−2·5	−0·1	−0·9	−0·6	+0·4	−1·3	−1·2	−1·9	−0·9

TABLE 16.—*Departure from normal of monthly and annual mean air temperatures in 1907*—concld.

DIVISION.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
KASHMIR	Srinagar	+3·1	+5·3	−2·5	−1·0	−3·3	−5·4	−3·6	+0·2	+1·4	+1·8	+3·4	−1·3	+0·1
	Leh	+2·2	−1·4	−6·1	−1·0	−2·1	−4·9	−5·4	−1·8	−1·6	+0·5	+2·8	+0·0	−1·5
BALUCHISTAN	Quetta	+5·9	−1·6	−1·8	+0·3	−3·2	−6·1	+1·7	+1·1	+1·2	+1·0	+3·0	+0·2	+0·1
HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN.	Simla	+6·0	−3·5	−8·1	−8·5	−3·0	−0·6	+1·6	−0·4	+0·2	+2·2	+2·2	+2·9	−0·3
	Chakrata	+4·3	−4·7	−8·9	−4·7	−2·5	+0·7	+2·1	+0·2	+1·1	+3·6	+3·6	+2·3	−0·2
	Katmandu	+1·5	+0·7	−3·7	−1·1	+0·4	+0·3	−0·9	+0·2	+0·4	+0·4	+1·5	−3·7	−0·3
	Darjeeling	+3·4	+0·2	−3·2	−3·1	−0·1	−0·8	+0·2	+1·5	+1·0	+0·7	+2·1	+2·8	+0·4
	Pachmarhi	+0·4	−1·4	−3·1	−5·9	−2·4	+2·1	+4·3	−1·3	+0·4	+2·3	?	−0·8	?
	Mount Abu	+2·2	−2·9	−3·4	−4·6	−2·2	−0·5	+3·4	−0·4	−1·9	+0·2	+2·0	−0·1	−0·7
	Chikalda	+0·1	−3·2	−3·1	−6·2	−0·9	+1·5	+3·3	−0·9	+1·3	+4·3	+3·7	+0·1	0
EXTRA INDIA	Zanzibar	−1·2	−0·4	+0·8	−0·4	+0·3	0	+0·2	−0·1	0	+0·8	+1·1	+0·3	+0·1
	Seychelles	−0·3	−0·1	+1·6	+1·6	+0·4	+0·6	+0·7	−0·5	−1·1	+0·5	+1·3	+0·7	+0·5
	Mauritius	−2·3	−0·6	−0·2	0	−0·6	−0·2	−0·5	−1·6	−0·7	+0·6	+1·3	+0·7	−0·3

TABLE 17.—*Geographical summary of the temperature departure data of Table A in the Monthly Weather Reviews of 1907.*

METEOROLOGICAL AREA.	Number of stations.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
North-West Himalayas	4	+5·2	−1·3	−6·4	−2·6	−2·7	−2·6	−1·3	−0·5	+0·3	+2·0	+3·0	+1·1	−0·5
Sikkim Himalayas and Nepal	2	+2·5	+0·5	−3·5	−2·1	+0·2	−0·3	−0·4	+1·2	+0·7	+0·6	+1·8	−0·7	0
Punjab Plains	1	+4·2	−1·0	−5·2	−4·0	−1·7	−1·8	+2·7	−0·6	+3·7	+2·5	+2·9	−0·7	+0·1
Gangetic Plain	2	+2·8	−1·8	−5·1	−4·4	−2·0	+1·8	+4·9	+0·5	+2·8	+3·7	+2·4	−0·7	+0·3
Western Rajputana	1	+2·2	−2·9	−3·4	−4·6	−2·2	−0·3	+3·4	−0·4	−1·9	+0·2	+2·0	−0·1	−0·7
Eastern Rajputana and Central India	1	+3·8	−1·9	−3·0	−3·8	−2·9	+2·5	+4·6	−1·7	−0·7	+1·2	+1·6	−1·4	−0·1
Lower Bengal	1	+2·7	+0·9	−2·6	−2·0	+0·3	+0·2	+1·2	+1·1	+1·6	+1·9	+1·4	+0·4	+0·6
Central Provinces (South) and Berar	3–4	+0·3	−2·0	−2·8	−6·2	−1·4	+1·4	+3·6	−1·7	+1·2	+3·3	+2·8	−0·7	−0·2
Konkan	1	+2·3	+1·1	+0·6	+1·1	−0·1	+0·7	+0·4	−0·5	+1·1	+1·0	+2·3	+0·6	+0·9
Deccan, Hyderabad and Mysore	3	+0·5	+0·8	−0·3	−3·6	−0·3	−0·4	+0·7	−1·5	+1·1	+1·4	+1·9	+0·8	+0·1
East Coast and Carnatic	1	−0·7	−0·2	+0·5	−0·6	+1·7	+1·2	+0·1	+2·2	+1·4	−0·1	−0·6	−0·4	+0·4
Arakan and Pegu	1	+0·9	+1·1	−2·0	−0·7	−1·7	+0·1	+0·9	−0·5	+0·5	−0·2	+2·3	−0·8	0
Bay Islands	1	0	−0·9	−2·2	−0·4	−2·5	−0·2	−0·9	−0·6	+0·4	−1·3	−1·2	−1·0	−0·9
Extra-tropical India	12	+3·7	−1·1	−4·7	−3·1	−1·8	−0·6	+1·3	0	+0·3	+1·7	+2·4	0	−0·1
Tropical India	10–11	+0·5	−0·4	−1·4	−3·3	−0·8	+0·5	+1·6	−1·0	+1·0	+1·5	+1·7	−0·2	0
Whole India	22–23	+2·1	−0·8	−3·1	−3·2	−1·3	0	+1·4	−0·5	+0·9	+1·6	+2·0	−0·1	−0·1

TABLE 18.—*Departure of the mean monthly maximum temperature from the normal in the fourteen chief political divisions of India in 1907.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma	−0·3	−0·2	−2·2	−1·3	−1·3	−0·7	+0·2	−0·7	−0·3	−1·0	+1·0	−1·8	−0·7
Eastern Bengal and Assam	+2·3	−0·8	−4·0	−3·2	+0·5	−0·5	−1·0	+1·4	−0·1	+1·2	+1·4	+1·0	−0·2
Bengal	+1·6	−2·5	−4·8	−5·5	−0·8	−0·1	+0·9	+0·3	+0·7	+3·6	+3·1	−0·4	−0·3
United Provinces	+2·6	−4·8	−6·9	−6·9	−2·4	+3·5	+7·5	+0·7	+4·3	+5·1	+3·7	+0·9	+0·6
Punjab	+3·2	−5·0	−8·1	−8·5	−4·0	−1·6	+4·3	−1·5	+2·4	+2·1	+3·1	+1·3	−1·0
North-West Frontier Province	+3·7	−4·9	−7·4	−5·9	−2·8	−4·2	+2·2	−0·5	+2·3	+1·4	+2·6	+0·5	−1·1
Sind	+4·6	−5·0	−1·9	−3·0	−1·2	−1·7	+3·3	+0·9	−1·4	−0·5	+3·5	+1·1	−0·1
Rajputana	+4·7	−5·3	−4·7	−5·6	−2·3	+1·7	+6·9	−3·3	−0·9	+0·5	+1·9	−0·1	−0·5
Bombay	+1·2	−1·1	−0·7	−3·4	+0·1	+1·0	+2·2	−2·9	+0·7	+2·6	+2·8	+0·4	+0·2
Central India	+1·8	−3·7	−4·3	−7·3	−2·9	+3·2	+9·0	−1·9	+1·2	+4·6	+3·8	−0·3	+0·3
Central Provinces	+1·0	−3·4	−3·2	−7·8	−1·7	+2·6	+3·9	−3·9	+2·5	+5·4	+3·7	−0·1	0
Hyderabad	−0·6	−0·7	−1·4	−6·3	−0·6	+0·6	−0·7	−3·3	+2·3	+5·1	+3·7	+0·3	−0·1
Mysore	0	+0·8	−0·3	−4·0	+1·6	+0·2	+0·8	−2·7	+1·4	+2·1	+1·2	+1·4	+0·2
Madras	0	−0·3	−0·5	−2·4	+0·4	−0·1	−0·3	−0·7	+1·6	+1·2	+0·6	0	−0·1

TABLE 19.—*Departure of mean monthly minimum temperature from the normal in the fourteen chief political divisions of India in 1907.*

Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma	+ 3·1	+ 1·1	+ 0·5	— 0·6	0	+ 0·1	+ 0·7	+ 0·3	+ 0·4	+ 0·3	+ 1·0	+ 0·9	+ 0·6
Eastern Bengal and Assam ...	+ 2·7	+ 0·8	— 2·1	— 2·5	— 0·7	— 0·6	— 0·5	+ 0·6	0	— 0·9	— 1·2	— 0·7	— 0·4
Bengal	+ 1·5	+ 1·0	— 2·4	— 3·0	— 1·6	— 0·1	+ 0·5	+ 0·5	+ 0·1	— 0·8	— 1·0	— 1·2	— 0·5
United Provinces	+ 2·5	+ 0·9	— 3·2	— 2·6	— 2·7	+ 0·5	+ 2·6	+ 0·2	+ 0·4	— 0·3	— 0·5	— 3·6	— 0·5
Punjab	+ 4·1	+ 0·8	— 3·0	— 1·7	— 2·4	— 2·3	+ 0·9	— 0·1	+ 1·7	+ 1·5	+ 1·4	— 3·1	— 0·2
North-West Frontier Province ...	+ 4·7	+ 0·2	— 3·7	— 1·2	— 2·8	— 3·8	— 1·5	— 0·3	+ 1·7	+ 1·4	+ 2·8	— 2·9	— 0·4
Sind	+ 4·0	+ 1·1	+ 0·3	+ 0·5	— 2·8	— 1·4	+ 1·9	+ 1·3	— 0·7	— 0·7	+ 1·6	— 2·3	+ 0·2
Rajputana	+ 3·6	+ 1·9	— 1·2	— 0·7	— 2·6	+ 0·9	+ 3·3	— 0·4	— 3·2	+ 0·2	— 0·1	— 4·7	— 0·3
Bombay	+ 1·5	+ 1·2	— 0·4	— 0·8	— 1·8	— 0·2	+ 0·6	— 0·4	— 0·8	+ 0·1	+ 2·0	— 0·9	0
Central India	+ 0·8	+ 1·9	— 1·5	— 0·7	— 2·7	+ 1·6	+ 3·7	+ 0·2	— 0·8	+ 0·3	+ 1·0	— 3·6	0
Central Provinces	+ 0·2	+ 1·2	— 1·7	— 3·6	— 4·4	— 0·3	+ 1·0	— 0·7	— 1·2	— 0·5	+ 0·5	— 2·2	— 1·0
Hyderabad	+ 1·1	+ 0·9	0	— 3·7	— 1·6	0	+ 0·6	— 0·5	+ 0·9	— 0·5	+ 2·8	+ 0·9	+ 0·1
Mysore	+ 0·7	+ 0·7	— 0·3	— 1·1	— 0·1	— 0·2	+ 0·5	— 0·2	— 0·2	— 0·1	+ 1·2	+ 0·4	+ 0·1
Madras	+ 0·6	+ 0·8	+ 0·7	— 1·1	— 0·1	+ 0·2	+ 0·2	+ 0·1	+ 0·6	+ 0·3	+ 1·0	+ 0·1	+ 0·3

TABLE 20.—*Departure of mean monthly temperature from the normal in the fourteen chief political divisions of India in 1907.*

Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma	+ 1·4	+ 0·4	— 0·9	— 1·0	— 0·6	— 0·3	+ 0·5	— 0·2	+ 0·1	— 0·4	+ 1·0	— 0·5	0
Eastern Bengal and Assam	+ 2·5	0	— 3·1	— 2·9	— 0·1	— 0·5	— 0·7	+ 1·0	0	+ 0·2	+ 0·1	+ 0·2	— 0·3
Bengal	+ 1·5	— 0·8	— 3·6	— 4·3	— 1·2	— 0·1	+ 0·7	+ 0·4	+ 0·4	+ 1·4	+ 1·1	— 0·8	— 0·4
United Provinces	+ 2·6	— 2·0	— 5·0	— 4·8	— 2·6	+ 2·0	+ 5·1	+ 0·5	+ 2·4	+ 2·4	+ 1·6	— 1·4	+ 0·1
Punjab	+ 3·7	— 2·2	— 5·6	— 5·1	— 3·2	— 2·0	+ 2·6	— 0·8	+ 2·1	+ 1·8	+ 2·2	— 0·9	— 0·6
North-West Frontier Province	+ 4·2	— 2·1	— 5·6	— 3·6	— 2·8	— 4·0	+ 0·4	— 0·4	+ 2·0	+ 1·4	+ 2·7	— 1·2	— 0·8
Sind	+ 4·3	— 2·0	— 0·8	— 1·2	— 2·0	— 1·6	+ 2·6	+ 1·1	— 1·1	— 0·6	+ 2·6	— 0·6	+ 0·1
Rajputana	+ 4·2	— 1·7	— 3·0	— 3·2	— 2·5	+ 1·3	+ 5·2	— 1·9	— 2·0	+ 0·3	+ 0·9	— 2·4	— 0·4
Bombay	+ 1·4	0	— 0·6	— 2·1	— 0·9	+ 0·4	+ 1·5	— 1·7	— 0·1	+ 1·4	+ 2·4	— 0·2	+ 0·1
Central India	+ 1·4	— 1·0	— 2·9	— 4·0	— 2·8	+ 2·4	+ 6·3	— 0·8	+ 0·4	+ 2·5	+ 2·2	— 2·0	+ 0·1
Central Provinces	+ 0·6	— 1·1	— 2·5	— 5·7	— 3·1	+ 1·2	+ 2·5	— 1·8	+ 0·7	+ 2·5	+ 2·1	— 1·2	— 0·5
Hyderabad	+ 0·2	+ 0·1	— 0·7	— 5·1	— 1·1	+ 0·3	— 0·1	— 1·9	+ 1·6	+ 2·3	+ 3·3	+ 0·6	0
Mysore	+ 0·3	+ 0·7	— 0·3	— 2·6	+ 0·8	0	+ 0·6	— 1·5	+ 0·6	+ 1·1	+ 1·2	+ 0·9	+ 0·2
Madras	+ 0·3	+ 0·2	+ 0·1	— 1·8	+ 0·2	+ 0·1	— 0·1	— 0·3	+ 1·1	+ 0·8	+ 0·7	+ 0·1	+ 0·1
Mean of India when the size of the above areas is taken into account.	+ 1·9	— 0·7	— 2·4	— 3·4	— 1·6	+ 0·2	+ 2·0	— 0·6	+ 0·5	+ 1·2	+ 1·6	— 0·7	— 0·2

TABLE 21.—*Departure of the mean monthly maximum temperature from the normal in 33 of the 34 sub-divisions of India in 1907.*

Sub-division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
1. Bay Islands	−0·3	−1·2	−3·7	−0·7	−3·0	−0·3	−1·0	−1·0	+0·4	−1·7	−1·1	−1·3	−1·3
2. Lower Burma	−0·4	−0·1	−2·1	−0·7	−1·9	+0·3	+0·6	−1·2	−0·2	−1·1	+0·9	−2·0	−0·7
3. Upper Burma	−0·2	−0·3	−2·5	−2·2	−0·6	−1·9	−0·4	−0·1	−0·5	−1·0	+1·2	−1·4	−0·8
4. Assam	+1·5	−1·6	−4·5	−3·3	+0·3	−1·7	−1·3	+1·6	−1·3	+0·3	+0·3	+0·3	−0·7
5. Eastern Bengal	+2·6	−0·4	−3·7	−3·1	+0·6	0	−0·8	+1·3	+0·4	+1·6	+1·7	+1·2	+0·1
6. Bengal	+1·9	−1·2	−4·6	−3·7	−0·2	−0·1	+0·4	+0·7	+1·4	+3·4	+3·5	+0·8	+0·2
7. Orissa	+0·1	−2·1	−3·4	−4·9	−1·2	−0·3	+1·3	−0·7	+0·3	+3·1	+3·0	−1·7	−0·5
8. Chota Nagpur	+1·5	−4·0	−5·2	−7·3	−1·9	+0·3	+2·3	0	+0·6	+5·1	+3·3	−2·0	−0·6
9. Bihar	+2·6	−3·5	−6·3	−7·1	−0·3	−0·2	+0·2	+1·2	+0·5	+3·4	+2·7	+1·0	−0·5
10. United Provinces, East	+3·0	−4·6	−6·3	−6·5	−1·6	+3·6	+3·7	+1·0	+4·0	+5·9	+4·3	+1·2	+0·9
11. Do. do. West	+2·3	−5·0	−7·4	−7·2	−3·1	+3·4	+3·2	+0·5	+4·6	+4·5	+3·3	+0·6	+0·4
12. Punjab, East and North	+2·4	−5·6	−9·0	−9·2	−4·4	−1·0	+5·1	−1·7	+3·0	+2·3	+3·0	+1·2	−1·2
13. Punjab, Southwest	+5·2	−3·6	−6·0	−6·9	−3·3	−3·1	+2·3	−1·1	+1·0	+1·6	+3·2	+1·5	−0·3
14. Kashmir	+7·0	−0·3	−5·0	−1·3	−3·9	−7·9	−4·1	−1·3	+2·1	+0·7	+4·1	+3·2	−0·6
15. North-West Frontier Province ...	+3·7	−4·9	−7·4	−5·9	−2·8	−4·2	+2·2	−0·5	+2·3	+1·4	+3·6	+0·5	−1·7
16. Baluchistan	+9·2	−5·7	−1·3	−1·7	−6·0	−6·7	+1·3	−0·3	+1·7	−0·3	+3·8	+3·2	−0·2
17. Sind	+4·6	−5·0	−1·9	−3·0	−1·2	−1·7	+3·3	+0·9	−1·4	−0·5	+3·5	+1·1	−0·1
18. Rajputana, West	+5·0	−5·0	−5·0	−6·4	−2·7	−0·1	+5·6	−3·2	−2·3	−1·4	+1·2	−0·7	−1·3
19. Do. East	+4·6	−5·6	−4·6	−5·1	−2·0	+2·3	+7·3	−3·0	+0·6	+1·8	+2·6	+0·5	0
20. Gujarat	+2·5	−2·1	−1·2	−3·5	−0·2	+0·2	+4·4	−3·7	−0·3	+1·8	+3·4	+0·5	+0·2
21. Central India, West	+2·1	−2·6	−3·3	−7·1	−3·3	+2·1	+7·7	−3·0	+0·9	+4·5	+3·4	−0·2	+0·1
22. Do. East	+1·6	−4·9	−5·3	−7·4	−2·5	+5·4	+10·2	−0·3	+2·5	+4·3	+3·1	−0·5	+0·5
23. Berar	+1·5	−3·7	−2·7	−6·8	−0·3	+2·2	+2·5	−3·7	+4·0	+6·5	+4·2	+0·4	+0·3
24. Central Provinces, West	+1·2	−3·3	−3·4	−7·7	−2·0	+3·3	+5·4	−2·3	+2·3	+5·7	+3·3	−0·2	+0·3
25. Do. East	−0·4	−3·1	−3·5	−9·2	−2·0	+1·4	+1·0	−4·4	+0·3	+3·4	+3·0	−0·5	−1·1
26. Konkan	−0·2	−0·9	−0·4	+0·1	−0·2	+0·7	+0·6	−1·1	−0·4	+1·3	+1·2	−0·2	0
27. Bombay Deccan	+1·0	−0·1	−0·5	−6·2	+0·7	+2·2	+1·1	−3·5	+2·5	+4·7	+3·6	+0·9	+0·5
28. Hyderabad, North	...	...	No data		...	...	...	...	...	...	...	...	...
29. Do. South	−0·6	−0·7	−1·4	−6·2	−0·6	+0·6	−0·7	−3·3	+2·3	+5·1	+3·7	+0·3	−0·1
30. Mysore	0	+0·8	−0·3	−4·0	+1·6	+0·2	+0·8	−2·7	+1·4	+2·1	+1·2	+1·4	+0·2
31. Malabar	−0·2	−0·3	−0·1	−1·0	+0·6	+0·4	−0·3	−2·0	−0·1	+0·5	−0·5	−0·8	−0·3
32. Madras, Southeast	+0·2	−0·1	−0·1	−2·3	+0·4	−0·3	−0·3	+0·1	+1·5	0	−0·3	+1·1	0
33. Do. Deccan	−0·2	−0·3	−0·9	−4·5	+1·1	+0·1	0	−0·9	+3·3	+4·6	+1·8	−0·2	+0·3
34. Do. Coast, North	0	−0·9	−2·0	−2·4	−0·2	−0·6	−0·6	−1·0	+2·2	+2·1	+2·0	−1·1	−0·2

TABLE 22.—*Departure of the mean monthly minimum temperature from the normal in 33 of the 34 sub-divisions of India in 1907.*

Sub-division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
1. Bay Islands	+0·6	−0·4	−0·7	−0·1	−1·5	+0·7	−0·6	0	+0·2	−0·9	−1·0	−0·8	−0·4
2. Lower Burma	+2·4	+1·5	+0·8	−0·1	−0·1	+0·6	+0·3	+0·1	+0·4	+0·7	+2·2	+0·3	+0·8
3. Upper Burma	+4·0	+0·4	+0·1	−1·2	+0·2	−0·7	+0·6	+0·5	+0·4	−0·1	−1·4	+1·6	+0·4
4. Assam	+1·8	+0·4	−2·1	−2·5	−0·7	−1·6	−0·5	+0·5	−0·2	−1·1	−1·1	−0·7	−0·7
5. Eastern Bengal	+3·1	+1·0	−2·1	−2·6	−0·7	−0·1	−0·5	+0·6	+0·1	−0·7	−1·2	−0·7	−0·3
6. Bengal	+2·4	+1·0	−2·7	−2·4	−1·1	−0·3	+0·3	+0·4	+0·4	−0·6	−1·4	−0·6	−0·4
7. Orissa	−0·3	+1·6	−0·9	−2·5	−1·7	+0·1	+0·8	+0·8	0	−1·9	−0·5	−0·5	−0·4
8. Chota Nagpur	+1·7	+0·7	−2·1	−3·8	−2·2	+1·0	+1·4	+0·5	+0·2	+0·5	−0·2	−0·6	−0·2
9. Bihar	+1·9	+0·7	−3·5	−3·8	−1·6	−0·7	−0·2	+0·2	−0·3	−1·0	−1·5	−3·6	−1·1
10. United Provinces, East	+2·1	+1·5	−2·8	−2·2	−2·8	+0·6	+2·3	+0·1	+0·1	−1·0	−2·0	−4·1	−0·7
11. Do. do. West	+2·9	+0·4	−3·5	−3·0	−2·6	+0·2	+2·8	+0·2	+0·6	+0·3	+0·7	−3·1	−0·8
12. Punjab, East and North	+4·1	+1·0	−3·0	−1·9	−2·3	−2·1	+0·3	−0·1	+2·0	+1·5	+1·2	−3·2	−0·1
13. Punjab, Southwest	+4·3	+0·1	−3·0	−1·2	−2·6	−2·8	−0·1	+0·1	+1·0	+1·3	+1·7	−2·8	−0·3
14. Kashmir	+5·3	+1·9	−3·2	+0·5	−2·5	−5·6	−4·9	−0·7	−1·1	+1·6	+2·3	−4·1	−0·9
15. North-West Frontier Province ...	+4·7	+0·9	−3·7	−1·2	−2·8	−3·8	−1·5	−0·3	+1·7	+1·4	+2·8	−2·9	−0·4
16. Baluchistan	+2·8	−0·9	−1·1	−0·3	−4·9	−3·7	+1·2	+0·5	−0·3	−0·1	+0·7	−2·9	−0·8
17. Sind	+4·0	+1·1	+0·3	+0·5	−2·8	−1·4	+1·9	+1·3	−0·7	−0·7	+1·6	−2·3	+0·2
18. Rajputana, West	+2·7	+1·6	−2·9	−1·4	−2·9	−0·4	+2·3	−0·9	−3·9	−2·7	−0·8	−5·1	−1·2
19. Do. East	+3·9	+2·1	−0·1	−0·3	−2·4	+1·8	+4·0	−0·1	−2·4	+1·6	+0·5	−4·4	+0·4
20. Gujarat	+2·2	+1·7	+0·1	+0·3	−2·2	−0·6	+1·1	−0·7	−1·4	−1·5	+1·6	−2·5	−0·2
21. Central India, West	+0·6	+1·5	−1·1	−0·3	−2·4	+1·2	+2·4	+0·1	−1·5	+1·0	+1·6	−3·7	−0·1
22. Do. East	+1·1	+2·3	−2·0	−1·2	−3·1	+2·4	+5·0	+0·4	−0·2	−0·4	+0·5	−3·5	+0·1
23. Berar	+0·6	+1·0	−1·2	−2·5	−3·2	+0·4	+1·6	−0·9	−0·2	+2·0	+3·2	−0·8	0
24. Central Provinces, West	+0·2	+1·4	−2·0	−3·6	−4·9	−0·3	+1·6	−0·7	−1·3	−0·4	+0·6	−2·9	−1·0
25. Do. East	−0·2	+0·7	−1·6	−5·0	−4·4	−1·1	−1·4	−0·8	−1·8	−3·3	−2·4	−1·6	−1·9
26. Konkan	+1·5	+0·8	−0·4	−0·5	−0·6	+0·2	+0·4	0	−0·1	+1·5	+2·1	+0·7	+0·5
27. Bombay Deccan	+0·7	+0·9	−1·1	−2·4	−2·3	0	−0·3	−0·5	−0·2	+0·9	+2·8	−0·6	−0·2
28. Hyderabad, North	...	...	No data.		...	...	...	...	...	...	...	...	...
29. Do. South	+1·1	+0·9	0	−3·7	−1·6	0	+0·6	−0·5	+0·9	−0·5	+2·8	+0·9	+0·1
30. Mysore	+0·7	+0·7	−0·3	−1·1	−0·1	−0·2	+0·5	−0·2	−0·2	−0·1	+1·2	+0·4	+0·1
31. Malabar	+0·9	+1·0	0	−0·6	−0·1	+0·3	+0·2	−0·3	+0·4	+1·3	+0·7	+0·8	+0·4
32. Madras, Southeast	+0·2	+0·4	+1·2	−0·3	+0·7	+0·3	+0·4	+0·3	+0·6	+0·6	+0·6	−0·3	+0·4
33. Do. Deccan	+1·4	+1·0	+0·3	−3·2	−0·3	+0·1	0	+0·4	+1·0	−0·7	+2·6	+1·1	+0·3
34. Do. Coast, North	+0·5	+1·2	+0·4	−1·5	−1·6	−0·4	−0·4	−0·2	+0·6	−0·9	+1·3	−0·6	−0·1

TABLE 23.—*Departure of the mean monthly and annual temperature from the normal in 33 of the 34 sub-divisions of India in 1907.*

Sub-division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
1. Bay Islands	+0·2	−0·8	−2·2	−0·4	−2·3	−0·1	−0·8	−0·5	+0·3	−1·3	−1·1	−1·1	−0·8
2. Lower Burma	+1·0	+0·7	−0·7	−0·4	−1·0	+0·5	+0·7	−0·6	+0·1	−0·2	+1·6	−0·9	+0·1
3. Upper Burma	+1·9	+0·1	−1·2	−1·7	−0·2	−1·3	+0·1	+0·2	−0·1	−0·6	−0·1	+0·1	−0·2
4. Assam	+1·7	−0·6	−3·3	−2·9	−0·2	−1·7	−0·9	+1·1	−0·8	−0·4	−0·2	−0·2	−0·7
5. Eastern Bengal	+2·9	+0·3	−2·9	−2·0	−0·1	−0·1	−0·7	+1·0	+0·3	+0·5	+0·3	+0·3	−0·1
6. Bengal	+2·2	−0·1	−3·7	−3·1	−0·7	−0·2	+0·4	+0·6	+0·9	+1·4	+1·1	+0·1	−0·1
7. Orissa	−0·1	−0·3	−2·2	−3·7	−1·5	−0·1	+1·1	+0·1	+0·2	+0·6	+1·3	−1·1	−0·5
8. Chota Nagpur	+1·6	−1·7	−3·7	−5·6	−2·1	+0·7	+1·9	+0·3	+0·4	+2·8	+1·6	−1·3	−0·4
9. Bihar	+2·3	−1·4	−4·9	−5·5	−1·0	−0·5	0	+0·7	+0·1	+1·2	+0·6	−1·3	−0·8
10. United Provinces, East	+2·6	−1·6	−4·6	−4·4	−2·3	+2·1	+4·5	+0·6	+2·1	+2·3	+1·2	−1·5	+0·1
11. Do. do. West	+2·6	−2·3	−5·8	−5·1	−2·9	+1·8	+5·5	+0·4	+2·6	+2·4	+2·0	−1·8	0
12. Punjab, East and North	+3·3	−2·8	−6·0	−5·6	−3·4	−1·6	+3·2	−0·9	+2·5	+1·9	+2·1	−1·0	−0·7
13. Punjab, Southwest	+4·8	−1·8	−4·5	−4·1	−3·0	−3·0	+1·1	−0·5	+1·0	+1·5	+2·5	−0·7	−0·6
14. Kashmir	+6·2	+0·8	−4·1	−0·4	−3·2	−6·8	+4·5	−1·0	+0·5	+1·2	+3·2	−0·5	−0·7
15. North-West Frontier Province ...	−4·2	−2·0	−5·6	−3·6	−2·3	−4·0	+0·4	−0·4	+2·0	+1·4	+2·7	−1·2	−0·7
16. Baluchistan	+6·0	−3·3	−1·2	−1·0	−5·5	−5·2	+1·5	+0·1	+0·7	−0·2	+2·3	+0·2	−0·5
17. Sind	+4·3	−2·0	−0·8	−1·3	−2·0	−1·6	+2·6	+1·1	−1·1	−0·6	+2·6	−0·6	+0·1
18. Rajputana, West	+3·9	−1·7	−4·0	−3·9	−2·8	−0·3	+4·0	−2·4	−3·1	−1·8	+0·2	−2·9	−1·2
19. Do. East	+4·3	−1·8	−2·4	−2·7	−2·2	+2·3	+5·9	−1·6	−0·9	+1·7	+1·6	−3·0	+0·2
20. Gujarat	+2·4	−0·2	−0·6	−1·6	−1·2	−0·2	+2·8	−2·2	−0·9	+0·2	+2·5	−1·0	0
21. Central India, West	+1·4	−0·6	−2·2	−3·7	−2·9	+1·7	+5·1	−1·5	−0·3	+2·8	+2·5	−2·0	0
22. Do. East	+1·4	−1·3	−3·7	−4·3	−2·8	+3·9	+7·6	−0·2	+1·2	+2·2	+1·8	−2·0	+0·3
23. Berar	+1·1	−1·4	−2·0	−4·7	−1·8	+1·3	+2·1	−2·3	+1·9	+4·3	+3·7	−0·2	+0·2
24. Central Provinces, West	+0·7	−1·0	−2·7	−5·7	−3·5	+1·5	+3·5	−1·5	+0·6	+2·7	+2·2	−1·6	−0·4
25. Do. East	−0·3	−1·2	−2·6	−7·1	−3·2	+0·2	−0·2	−2·6	−0·5	+0·1	+0·3	−1·1	−1·5
26. Konkan	+0·7	−0·1	−0·4	−0·2	−0·4	+0·5	+0·5	−0·6	−0·3	+1·4	+1·7	+0·3	+0·3
27. Bombay Deccan	+0·9	+0·3	−0·8	−2·3	−0·8	+1·1	+0·7	−2·0	+0·3	+2·8	+3·0	+0·2	+0·2
28. Hyderabad, North...	...	...	No data		...	...	...	...	...	...	...	...	...
29. Do. South	+0·3	+0·1	−0·7	−5·0	−1·1	+0·3	−0·1	−1·9	+1·6	+2·3	+3·3	+0·6	0
30. Mysore	+0·4	+0·8	−0·3	−2·6	+0·8	0	+0·7	−1·5	+0·6	+1·0	+1·2	+0·	+0·2
31. Malabar	+0·4	+0·4	−0·1	−0·8	+0·3	+0·6	−0·1	−1·2	+0·2	+0·9	+0·1	0	+0·1
32. Madras, Southeast	+0·2	+0·2	+0·6	−1·8	+0·8	+0·1	+0·1	+0·3	+1·1	+0·3	+0·2	+0·4	+0·2
33. Do. Deccan	+0·6	+0·4	−0·3	−3·9	+0·4	+0·1	0	−0·3	+2·2	+2·0	+2·2	+0·5	+0·3
34. Do. Coast, North	+0·3	+0·2	−0·8	−2·0	−0·9	−0·5	−0·5	−0·6	+1·4	+0·6	+1·7	−0·9	−0·2

In the discussion of the meteorology of India, during the present year 1907, the year is divided into four seasons according to the following arrangement:—

1st.—The cold weather period, including the months of January and February.

2nd.—The hot weather period, including the months of March, April and May.

3rd.—The period of the south-west monsoon rains proper, including the months of June, July, August and September.

4th.—The period of the retreating south-west monsoon, including the months of October, November and December.

I.—The cold weather period.—The meteorological conditions of this season were characterized by features similar to those which prevailed in the corresponding period of the previous year. January was unusually dry over a large extent of the country, while February was very wet over northern and central India and drier than usual over the Peninsula. The excess of rainfall in the latter month was very large in amount and more than counterbalanced the defect in January.

The snowfall of the period was as unusual in its time of occurrence and quantity as the rainfall, and notwithstanding its scantiness in January the accumulations of snow at the end of February were greater than usual.

The abnormalities of temperature were as usual related almost solely to those of precipitation and cloud. In January owing to the absence of regular cold weather storms temperature was steady, but in February four cool waves traversed northern India and of these the second and fourth were of moderate intensity and advanced across the country from the northwest frontier to Burma between the 4th and the 12th, and the 16th and the 28th.

The greatest cold of the year in northern and central India, which under ordinary conditions occurs in this season, was in 1907 deferred until towards the close of the year.

(*a*) The departures from normal of the mean daily maximum temperature were of opposite signs in the two months, the weather by day in January having been warmer than usual in most parts of the country and cooler everywhere in February. The largest departures in both months occurred in the northwest, the region of the winter rains. On the mean of the period day temperature was practically normal throughout the country except in the United Provinces, Central India and the Central Provinces, where there was a defect of about 1.°

Table 24.

Division.	Departure of maximum temperature from normal.		
	January.	February.	Period, January and February.
	°	°	°
Burma	−0·3	−0·2	−0·3
Eastern Bengal and Assam	+2·3	+0·8	+0·8
Bengal	+1·6	−2·5	−0·5
United Provinces	+2·6	−4·8	−1·1
Punjab	+3·3	−5·0	−0·9
North-West Frontier Province	+3·7	−4·9	−0·6
Sind	+4·6	−5·0	−0·2
Rajputana	+4·7	−5·3	−0·3
Bombay	+1·2	−1·1	+0·1
Central India	+1·8	−3·7	−1·0
Central Provinces	+1·0	−3·4	−1·2
Hyderabad	−0·6	−0·7	−0·7
Mysore	0	+0·8	+0·4
Madras	0	−0·3	−0·2

(*b*) Minimum or night temperature was above normal throughout the period over the whole country; the excess was most marked in the area including the Punjab, North-West Frontier Province, Sind and Rajputana, where it averaged 2½° in amount.

Table 25.

Division.	Departure of minimum temperature from normal.		
	January.	February.	Period, January and February.
	°	°	°
Burma	+3·1	+1·1	+2·1
Eastern Bengal and Assam	+2·7	+0·8	+1·8
Bengal	+1·5	+1·0	+1·3
United Provinces	+2·5	+0·9	+1·7
Punjab	+4·1	+0·8	+2·5
North-West Frontier Province	+4·7	+0·9	+2·8
Sind	+4·0	+1·1	+2·6
Rajputana	+3·6	+1·9	+2·8
Bombay	+1·5	+1·2	+1·4
Central India	+0·8	+1·9	+1·4
Central Provinces	+0·2	+1·2	+0·7
Hyderabad	+1·1	+0·9	+1·0
Mysore	+0·7	+0·7	+0·7
Madras	+0·6	+0·8	+0·7

(*c*) The departures from normal of mean temperature were similar in their general character to those of the day temperature. On the average of the period temperature ruled above normal in all divisions with the exception of the Central Provinces, but the excess was everywhere less than 1½°.

Table 26.

Division.	Departure of mean temperature from normal.		
	January.	February.	Period, January and February.
	°	°	°
Burma	+1·4	+0·4	+0·9
Eastern Bengal and Assam	+2·5	0	+1·3
Bengal	+1·5	−0·8	+0·4
United Provinces	+2·6	−2·0	+0·3
Punjab	+3·7	−2·2	+0·8
North-West Frontier Province	+4·2	−2·1	+1·1
Sind	+4·3	−2·0	+1·2
Rajputana	+4·2	−1·7	+1·3
Bombay	+1·4	0	+0·7
Central India	+1·4	−1·0	+0·2
Central Provinces	+0·6	−1·1	−0·3
Hyderabad	+0·2	+0·1	+0·2
Mysore	+0·3	+0·7	+0·5
Madras	+0·3	+0·2	+0·3

(*d*) Along the southern face of the Himalayas temperature varied somewhat irregularly from normal from station to station—an indication that the departures were determined by local rather than general causes.

Table 27.

Station.	Departure from normal of period, January and February.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Chérat	−0·8	+1·5	+0·4
Murrée	−2·2	−2·6	−2·4
Kailang	−0·6	+0·9	+0·2
Simla	+1·7	+1·5	+1·6
Chakrata	−0·2	−0·2	−0·2
Darjeeling	+1·9	+1·7	+1·8

(*e*) The excess of temperature in upper India extended westwards into Afghanistan, Baluchistan and Persia, and northwards into Kashmir. Baghdad and Kashgar were apparently beyond the limits of the region of high temperature.

Table 28.

Station.	Departure from normal of period, January and February.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Baghdad	−1·9	0	−1·0
Ispahan	+0·8	+1·3	+1·1
Bushire	−0·6	+0·1	−0·3
Jask	+0·7	+1·2	+1·0
Chaman	+1·1	+1·1	+1·1
Quetta	+2·5	+0·9	+1·7
Kabul	+5·7	+5·9	+5·8
Gilgit	+3·7	+2·4	+3·1
Srinagar	+6·1	+5·2	+5·7
Kashgar	−1·3	−1·1	−1·2
Kailang	−0·6	+0·2	+0·2
Leh	+0·3	+0·6	+0·5

II. The hot weather period.—Meteorologically this period was also abnormal. The cold weather conditions which usually do not outlast the middle of March were in 1907 prolonged well into April. Weather was very rainy over the greater part of the plains of India and heavy snow fell in the western Himalayas down to very low levels. In northern India the precipitation was associated with the advance eastwards of a series of depressions of the cold weather type, and in the Peninsula with the prevalence of peculiar conditions over the neighbouring seas. In May, the last month of the period, conditions were much more settled than usual over a large part of the country.

(*a*) Maximum temperature was lower than usual over the whole country throughout the greater part of the period, the mean defect having been more than 2° over three-quarters of the area. The region of largest defect included the Punjab, North-West Frontier Province and the United Provinces where temperature was from 5° to 7° below normal.

Table 29.

Division.	Departure of maximum temperature from normal			
	March.	April.	May.	Period, March to May.
	°	°	°	°
Burma	−2·2	−1·3	−1·3	−1·6
Eastern Bengal and Assam	−4·0	−3·2	+0·5	−2·3
Bengal	−4·3	−5·5	−0·3	−3·7

Division.	Departure of maximum temperature from normal			
	March.	April.	May.	Period, March to May.
	°	°	°	°
United Provinces	−6·9	−6·9	−2·4	−5·4
Punjab	−8·1	−8·5	−4·0	−6·9
North-West Frontier Province	−7·4	−5·9	−2·8	−5·4
Sind	−1·9	−3·0	−1·2	−2·0
Rajputana	−4·7	−5·6	−2·3	−4·2
Bombay	−0·7	−3·4	+0·1	−1·3
Central India	−4·3	−7·3	−2·9	−4·8
Central Provinces	−3·2	−7·8	−1·7	−4·2
Hyderabad	−1·4	−6·3	−0·6	−2·8
Mysore	−0·3	−4·0	+1·6	−0·9
Madras	−0·5	−2·4	+0·4	−0·8

(*b*) The departures of minimum temperature were similar in their general character to those of the maximum but smaller in amount. On the average of the whole period night temperature was in slight to moderate defect in northern and central India and practically normal over the rest of the country. The defect, as in the case of the maximum temperature, was shown in each of the three months.

Table 30.

Division.	Departure of minimum temperature from normal			
	March.	April.	May.	Period, March to May.
	°	°	°	°
Burma	+0·5	−0·6	0	0
Eastern Bengal and Assam	−2·1	−2·5	−0·7	−1·8
Bengal	−2·4	−3·0	−1·6	−2·3
United Provinces	−3·2	−2·6	−2·7	−2·8
Punjab	−3·0	−1·7	−2·4	−2·4
North-West Frontier Province	−3·7	−1·2	−2·8	−2·6
Sind	+0·3	+0·5	−2·8	−0·7
Rajputana	−1·2	−0·7	−2·6	−1·5
Bombay	−0·4	−0·8	−1·8	−1·0
Central India	−1·5	−0·7	−2·7	−1·6
Central Provinces	−1·7	−3·6	−4·4	−3·2
Hyderabad	0	−3·7	−1·6	−1·8
Mysore	−0·3	−1·1	−0·1	−0·5
Madras	+0·7	−1·1	−0·1	−0·2

(*c*) Mean daily temperature was approximately normal in Burma, Sind, Bombay, Mysore and Madras and below normal over the rest of India. The defect exceeded 2° in amount over the greater part of northern and central India and in Hyderabad, and was greatest in the Punjab where it averaged 4¼°.

Table 31.

Division.	Departure of mean temperature from normal.			
	March.	April.	May.	Period, March to May.
	°	°	°	°
Burma	−0·9	−1·0	−0·6	−0·8
Eastern Bengal and Assam	−3·1	−2·9	−0·1	−2·0
Bengal	−3·6	−4·3	−1·2	−3·0
United Provinces	−5·0	−4·8	−2·6	−4·1
Punjab	−5·6	−5·1	−3·2	−4·6
North-West Frontier Province	−5·6	−3·6	−2·8	−4·0
Sind	−0·8	−1·2	−2·0	−1·3
Rajputana	−3·0	−3·2	−2·5	−2·9
Bombay	−0·6	−2·1	−0·9	−1·2
Central India	−2·9	−4·0	−2·8	−3·2
Central Provinces	−2·5	−5·7	−3·1	−3·8
Hyderabad	−0·7	−5·1	−1·1	−2·3
Mysore	−0·3	−2·6	+0·3	−0·7
Madras	+0·1	−1·8	+0·2	−0·5

The low temperature in May, when dry weather prevailed generally in India, was presumably a result of the heavy precipitation of the previous two months.

(*d*) As might be expected from the low levels at which snowfall occurred, temperature was low at sub-Himalayan stations.

Table 32.

Station.	Departure from normal of mean temperature			
	March.	April.	May.	Period, March to May.
	°	°	°	°
Cherat	−6·6	−5·9	−6·9	−6·5
Murree	−10·4	−4·2	−4·1	−6·2
Simla	−3·1	−3·6	−3·0	−4·9
Chakrata	−8·6	−4·8	−2·5	−5·3

(*e*) In ordinary years the hot weather conditions attain their maximum intensity in upper India at about the end of May or in the first week of

June, but in the present year a delay of several weeks occurred. The absolute maximum of the year was as usual registered at Jacobabad, and was from ½° to 5½° lower than the annual maximum readings on record since 1894.

(*f*) The low temperature conditions in India extended westwards as far as Baghdad and northwards to Leh and Gilgit, and appear therefore to have been caused by general and not by local actions.

Table 33.

Station.	Departure from normal of period, March to May.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Baghdad	−2·9	+1·7	−0·6
Ispahan	−2·0	+1·3	−0·4
Bushire	−1·0	−0·2	−0·6
Jask	−0·6	+0·2	−0·2
Chaman	−3·6	−2·9	−3·3
Quetta	−2·4	−1·3	−1·9
Kabul	−1·5	−2·3	−1·9
Gilgit	−2·5	−1·9	−2·2
Srinagar	−3·4	−1·4	−2·4
Kashgar	+0·4	+2·4	+1·4
Kailang	−4·9	−3·2	−4·1
Leh	−4·2	−2·0	−3·1

III.—The south-west monsoon period.—The rains began somewhat later than usual in the coast districts and were feeble and intermittent until near the end of the third week of July. Strongly marked monsoon conditions prevailed from about July 21st to the close of the third week of August after which the activity of the Arabian Sea current diminished largely and abruptly. A complete break in the rains then set in over northwest India and extended eastwards embracing the greater part of northern and central India, before the end of August. Both monsoon currents, and especially that from the Arabian Sea, were below their normal strength during September, and precipitation was almost restricted to Burma, northeast India and the Peninsula.

To sum up, the monsoon currents of 1907 were not only late in arrival, and weak in character except for a short period in August, but also they withdrew from northern and central India long before the normal dates.

(*a*) Temperature differed little from the normal except locally in the United Provinces and Central India where it was on the mean of the period 2° above the average: the excess was more marked by day than by night, as is usual when both cloud and rain are in defect.

Table 34.

Division.	Departure from normal of period, June to September.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Burma	−0·4	+0·4	0
Eastern Bengal and Assam	−0·1	−0·1	0
Bengal	+0·5	+0·3	+0·4
United Provinces	+4·0	+1·0	+2·5
Punjab	+0·9	+0·1	+0·5
North-West Frontier Province	−0·1	−1·0	−0·5
Sind	+0·3	+0·3	+0·3
Rajputana	+1·1	+0·2	+0·7
Bombay	+0·3	−0·2	0
Central India	+3·0	+1·1	+2·0
Central Provinces	+1·6	−0·3	+0·7
Hyderabad	−0·3	+0·3	0
Mysore	−0·1	0	−0·1
Madras	+0·1	+0·3	+0·2

These abnormalities were related closely to those of the rainfall.

(*b*) In the regions to the north and west of upper India, temperature was more or less below normal by both day and night. Such a feature is generally associated with excess of rainfall, but as over a large part of the area the precipitation of the period in the present instance was below normal the explanation of the low temperature probably lies in the severity and long extension of the antecedent winter conditions.

Table 35.

Station.	Departure from normal of period, June to September.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Baghdad	+1·1	+1·4	+1·3
Ispahan	−3·3	+0·3	−1·0
Bushire	−1·4	−0·1	−0·8
Jask	−0·5	+1·1	+0·3
Chaman	−2·4	−3·1	−2·8
Quetta	−0·6	+0·5	−0·1
Kabul	+0·1	−2·1	−1·0
Gilgit	−3·0	−4·2	−3·6
Srinagar	−1·2	−2·5	−1·9
Kashgar	−1·8	−2·0	−1·9
Kailang	−1·3	−3·0	−2·2
Leh	−4·2	−2·5	−3·4

IV.—The retreating south-west monsoon period.—This period was very dry almost everywhere, the total precipitation over the country being only three-fifths of the normal quantity.

The Bay current was inactive except for a short interval in December: it withdrew from the Bay a few days later than usual, at about the end of the third week in December.

Settled weather prevailed in Persia and north-west India, and at the end of the year there were no signs of an early commencement of the winter rains.

(*a*) Owing to the prevalence of the dry weather over a large part of the country, day temperature was more or less in excess, and night temperature tended to be below normal. Mean temperature was within 1½° of the normal in all divisions with the exception of Hyderabad, where it was 2° in excess.

TABLE 36.

Division.	Departure from normal of period, October to December.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Burma	−0·6	+0·7	0
Eastern Bengal and Assam	+1·2	−0·9	+0·2
Bengal	+2·1	−1·0	+0·6
United Provinces	+3·2	−1·5	+0·9
Punjab	+2·2	−0·1	+1·0
North-West Frontier Province	+1·5	+0·4	+1·0
Sind	+1·4	−0·5	+0·5
Rajputana	+0·8	−1·5	−0·4
Bombay	+1·9	+0·4	+1·2
Central India	+2·5	−0·8	+0·9
Central Provinces	+3·0	−0·7	+1·1
Hyderabad	+3·0	+1·1	+2·1
Mysore	+1·6	+0·5	+1·1
Madras	+0·5	+0·5	+0·5

(*b*) The temperature conditions in Kashmir, Afghanistan and Baluchistan were similar in their general character to those of upper India. In Persia, on the other hand, temperature was inclined to be in defect.

TABLE 37.

Station.	Departure from normal of period, October to December.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Baghdad	−3·2	−0·4	−1·8
Ispahan	−1·3	+1·1	−0·1
Bushire	−1·4	−0·7	−1·1
Jask	+0·3	+0·1	+0·2
Chaman	+1·6	−1·4	+0·1
Quetta	+2·9	−0·1	+1·4
Kabul	+6·1	−1·5	+2·3
Gilgit	+2·3	0	+1·2
Srinagar	+3·7	−1·0	+1·4
Kashgar	+1·8	+1·2	+1·5
Kailang	+4·6	+1·2	+2·9
Leh	+2·1	+0·7	+1·4

The year.—The rapid rise of temperature which had marked the previous year was not maintained in 1907; weather was on the whole cooler than usual. This change in the temperature conditions is illustrated by the table below which gives the mean departure and progressive change of the mean actual temperature for the past 18 years:—

TABLE 38.

Year.	Number of stations.	Mean departure.	Progressive change.
		°	°
1890	85	+0·13	+0·73
1891	72	−0·03	−0·16
1892	74	+0·66	+0·69
1893	68	−1·33	−1·99
1894	66	+0·11	+1·44
1895	69	+0·35	+0·24
1896	67	+1·30	+0·95
1897	75	+0·90	−0·40
1898	75	+0·65	−0·25
1899	52	+0·78	+0·13
1900	50	+1·17	+0·39
1901	50	+0·63	−0·54
1902	49	+1·06	+0·43
1903	46	+0·18	−0·88
1904	46	−0·03	−0·21

ear.	Number of stations.	Mean departure.	Progressive change.
		°	°
1905	46	—0·42	—0·39
1906	45	+0·33	+0·75
1907*	23	—0·08	—0·41

* The number of stations available for this computation has been considerably reduced this year, but a comparison of the mean departure,—0·1° F, for 1907 in this table with that,—0·2, obtained from the large number of stations used for the figures on page 148 will indicate an improbability that the change has seriously diminished the value of the figures for 1907 in the above table.

It may be stated that the connection of this series of departures with the solar activity as exhibited in the number of sunspots is fairly conspicuous.

(*a*) The lowness of temperature occurred almost solely during the four months February to May, and in August, and was attributable in the first case to the unusually severe and prolonged winter conditions and in August to the occurrence of the very heavy rainfall of that month. In June and December temperature was normal, and during the remaining five months of the year it was above the average, in September by less than 1° and in January, July, October and November by more than that amount. These five months were characterized by the prevalence of much drier weather than usual.

TABLE 39.

Month.	Departure from normal of mean temperature.		
	Extra-tropical India (from Table A).	Tropical India (from Table A).	Whole India (from Table A).
	°	°	°
January	+3·7	+0·5	+2·1
February	—1·1	—0·4	—0·8
March	—4·7	—1·4	—3·1
April	—3·1	—3·3	—3·2
May	—1·8	—0·8	—1·3
June	—0·6	+0·5	0
July	+1·3	+1·6	+1·4
August	0	—1·0	—0·5
September	+0·8	+1·0	+0·9
October	+1·7	+1·5	+1·6
November	+2·4	+1·7	+2·0
December	0	—0·2	—0·1
Whole year ...	—0·1	0	—0·1

(*b*) The departures of temperature from the normal were of the same sign in tropical as in extra-tropical India during nine of the twelve months. Since in ordinary years the temperature conditions in those two regions tend to vary in opposite directions, the similarity of the departures in 1907 would appear to indicate that more general actions were in operation than usual.

Atmospheric pressure.

Full information regarding the types of barometers in use at Indian observatories and of the methods of reducing the observations and obtaining the mean daily and monthly pressures will be found in pages 4 and 5 of the Monthly Review for January 1907.

In Table A, called Table II, prior to 1907, of each Monthly Review the monthly mean daily pressure (corrected for temperature) is given in the seventh column, and the departure from the normal in the eighth column. The normal monthly mean pressure values were recalculated in 1904 for all first and second class stations, and will be found in pages 66-69 of the "Indian Meteorological Memoirs," Vol. XVII. The departure data in the Monthly Reviews for the year 1907, were obtained by a comparison of the actual monthly means with these normals; the departures of the monthly pressure of all first and second class stations in 1907 are given in Table 40. The figures in the seventh and eighth columns of Table A appended to the present Annual Summary, giving data of the mean pressure of the air and its departure from the normal for all first and second class stations, are comparable with the corresponding data of previous years published in the Annual Reports and Summaries.

In the ninth column of Table A in each Monthly Review the mean pressures reduced to sea level and corrected to constant gravity (Lat. 45°) are given. These are not directly comparable with the sea-level pressure values of the years 1875-90 as given in the Annual Reports for those years, for previous to 1891 no correction was made to reduce the monthly pressure means to standard gravity.

In Table B of each Monthly Review and also in that appended to the Annual Summary, the pressure data are given for a fixed hour (*viz.* 8 hrs. local time) of the day. The fourth column in that table gives the mean 8 hrs. pressures for the month corrected for temperature. In the fifth column are given the departures of these mean 8 hrs. pressures from the normal pressures.

TABLE 40.—*Departures from normal of monthly and annual mean pressure in 1907.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December	YEAR.
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
BURMA	Rangoon	—·006	—·017	+·021	+·006	+·002	—·002	—·001	—·024	—·008	—·017	—·015	—·012	—·006
BENGAL	Calcutta	—·044	+·020	+·049	+·031	+·005	—·046	+·008	—·087	—·013	—·013	—·018	—·014	—·010
UNITED PROVINCES OF AGRA AND OUDH.	Allahabad	—·051	+·011	+·033	+·030	+·011	—·009	—·040	—·056	—·003	—·043	—·031	—·007	—·013
	Dehra Dun	—·022	—·001	+·033	+·011	+·006	—·007	—·047	—·043	—·031	—·038	—·021	+·001	—·013
PUNJAB	Lahore	—·046	—·008	+·038	+·019	+·031	+·024	—·008	—·028	—·024	—·048	—·031	—·006	—·007
RAJPUTANA	Jaipur	—·022	—·001	+·019	+·010	+·040	+·012	0	—·036	+·036	—·012	—·015	+·010	+·003
BOMBAY	Bombay	—·012	—·007	+·013	+·004	+·033	+·005	—·017	—·014	+·042	—·006	—·037	—·015	—·001
CENTRAL PROVINCES.	Buldana	—·035	—·028	—·009	+·009	+·027	+·012	+·020	—·026	+·040	—·003	—·028	—·024	—·004
	Nagpur	—·006	+·010	+·020	+·053	+·030	—·002	+·001	—·016	+·057	+·012	—·011	0	+·012
HYDERABAD	Hyderabad	—·010	—·005	+·009	+·024	+·026	+·004	—·006	0	+·036	+·015	—·015	—·019	+·005
MYSORE	Bangalore	—·014	—·012	0	+·017	+·022	—·010	—·026	+·009	+·002	—·006	—·020	—·022	—·005
	Mysore	—·017	—·004	+·005	+·011	+·014	+·011	+·025	+·023	+·001	—·008	—·031	—·030	—·004
MADRAS	Madras	—·019	—·003	+·004	+·024	+·005	—·014	—·022	—·006	+·003	+·003	—·032	—·031	—·007
STATION IN THE BAY.	Port Blair	—·002	—·002	+·010	+·013	+·005	+·001	—·002	+·001	—·002	+·003	—·010	—·032	—·001
KASHMIR	Srinagar	—·042	—·036	—·028	—·033	+·017	+·050	+·038	—·014	—·009	—·004	—·019	—·001	—·007
	Leh	+·052	—·030	—·036	—·017	—·026	—·023	+·003	—·021	—·010	+·001	+·026	+·037	—·008
BALUCHISTAN	Quetta	+·005	—·059	—·019	—·031	+·024	+·032	—·058	—·035	+·008	+·001	—·005	+·031	—·009

TABLE 40.—*Departures from normal of monthly and annual mean pressure in 1907*—concld.

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
		"	"	"	"	"	"	"	"	"	"	"	"	"
HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN.	Simla	+·001	—·034	—·051	—·026	—·002	+·001	+·003	—·019	—·001	—·009	+·006	+·007	—·010
	Chakrata	+·005	—·019	—·036	—·017	+·003	+·011	+·012	—·004	—·004	—·008	+·012	+·021	—·001
	Kathmandu	—·010	—·002	+·028	+·017	+·063	+·056	+·041	+·014	+·020	+·017	0	+·031	+·023
	Darjeeling	—·019	—·013	—·001	—·008	—·025	—·002	—·005	—·026	—·031	—·008	—·005	—·001	—·012
	Pachmarhi	—·011	—·011	—·004	+·010	+·022	+·006	+·008	—·041	+·045	+·007	—·007	—·010	+·001
	Mount Abu	—·001	—·028	—·009	—·010	+·023	+·015	+·018	—·048	+·032	—·012	—·013	+·002	—·003
	Chikalda	—·038	—·026	—·013	—·003	+·021	+·008	+·001	—·037	+·037	+·008	—·021	—·034	—·008
EXTRA INDIA	Zanzibar	+·022	+·012	+·012	—·034	—·009	—·030	+·002	+·035	+·018	—·006	—·016	0	+·001
	Seychelles	+·015	+·006	+·030	—·030	—·005	+·007	—·045	+·040	+·017	+·005	—·006	+·010	+·004
	Mauritius	+·072	+·052	+·007	—·028	—·027	—·064	—·025	+·002	—·018	—·025	—·021	—·038	—·009

The two following tables give summaries of the pressure departure data according to the groups of divisions employed in the corresponding tables of temperature departure data, namely Tables 17 and 20.

TABLE 41.—*Geographical Summary of the pressure departure data of Table A, in the Monthly Weather Reviews of 1907.*

Meteorological Area.	Number of stations.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
		"	"	"	"	"	"	"	"	"	"	"	"	"
North-West Himalayas	4	+·001	—·030	—·050	—·023	—·002	+·010	+·014	—·005	—·001	—·005	—·006	+·005	—·007
Sikkim Himalayas and Nepal	2	—·015	—·008	+·011	+·005	+·019	+·027	+·018	—·006	—·006	+·005	—·008	+·015	+·005
Punjab Plains	1	—·046	—·038	+·038	+·019	+·031	+·024	—·008	—·023	—·024	—·048	—·031	—·006	—·007
Gangetic Plain	2	—·037	+·005	+·033	+·021	+·009	—·008	—·044	—·050	—·017	—·041	—·026	—·008	—·013
Western Rajputana	1	—·001	—·028	—·009	—·010	+·023	+·015	+·018	—·048	+·032	—·012	—·013	+·002	—·003
Eastern Rajputana and Central India	1	—·022	—·001	+·019	+·010	+·049	+·012	0	—·036	+·036	—·012	—·015	+·010	+·003
Lower Bengal	1	—·044	+·020	+·049	+·031	+·005	—·046	+·008	—·037	—·013	—·013	+·018	—·014	—·010
Central Provinces (South) and Berar	4	—·023	—·014	—·002	+·017	+·025	+·006	+·008	—·030	+·045	+·006	—·017	—·017	0
Konkan	1	—·012	—·007	+·013	+·004	+·033	+·005	—·017	—·014	+·042	—·006	—·037	—·015	—·001
Deccan, Hyderabad and Mysore	3	—·014	—·007	+·005	+·017	+·021	+·003	—·019	+·011	+·013	0	—·022	—·024	—·001
East Coast and Carnatic	1	—·019	—·003	+·004	+·024	+·005	—·014	—·022	—·006	+·003	+·003	—·032	—·031	—·007
Arakan and Pegu	1	—·006	—·017	+·021	+·006	+·002	—·002	—·001	—·024	—·008	—·017	—·015	—·012	—·006
Bay Island	1	—·002	—·002	+·010	+·013	+·005	+·001	—·002	+·001	—·002	+·003	—·010	—·032	—·001
Extra Tropical India	12	—·017	—·012	—·001	+·001	+·012	+·007	+·002	—·031	—·003	—·015	—·009	+·007	—·005
Tropical India	11	—·015	—·010	+·005	+·015	+·019	+·002	—·006	—·012	+·023	+·001	—·021	—·021	—·002
Whole India	23	—·016	—·011	+·002	+·008	+·015	+·004	—·002	—·022	+·010	—·007	—·015	—·006	—·003

TABLE 42.—*Departure of the mean monthly pressure from the normal in the fourteen chief political divisions of India in 1907.*

Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	"	"	"	"	"	"	"	"	"	"	"	"	"
Burma	—·003	+·003	+·024	+·009	+·001	—·001	+·001	—·029	—·009	—·012	—·008	—·018	—·008
Eastern Bengal and Assam	—·035	+·017	+·058	+·029	+·007	—·011	+·006	—·054	—·025	—·011	+·003	—·014	—·008
Bengal	—·032	+·019	+·044	+·037	+·018	—·033	0	—·072	—·011	—·010	—·004	—·007	
United Provinces	—·035	+·012	+·041	+·035	+·028	+·006	—·020	—·039	·0	—·020	—·014	+·004	0
Punjab	—·036	+·006	+·048	+·032	+·043	+·029	+·006	—·021	—·006	—·028	—·015	+·008	+·005
North-West Frontier Province	—·051	—·005	+·029	+·013	+·040	+·046	+·006	—·018	—·030	—·042	—·037	—·009	—·005
Sind	—·039	—·021	+·019	+·012	+·061	+·030	+·026	—·029	+·031	+·005	—·022	+·007	+·007
Rajputana	—·028	—·008	+·018	+·018	+·049	+·030	+·020	—·033	+·028	—·003	—·015	+·005	+·008
Bombay	—·010	—·003	+·010	+·015	+·033	+·010	—·002	—·018	+·043	+·002	—·024	—·012	+·004
Central India	—·030	—·001	+·017	+·026	+·045	+·012	—·007	—·036	+·046	—·004	—·015	+·004	+·004
Central Provinces	—·018	0	+·012	+·038	+·039	+·008	—·002	—·031	+·048	+·004	—·013	—·005	+·007
Hyderabad	—·014	+·010	+·018	+·037	+·019	+·010	—·018	—·012	+·025	+·006	—·027	—·027	+·002
Mysore	—·010	+·002	+·008	+·013	+·020	+·005	—·023	+·007	+·011	—·001	—·021	—·020	—·001
Madras	—·010	+·004	+·012	+·024	+·020	—·004	—·020	+·008	+·011	—·002	—·018	—·017	+·001
Mean of India when the size of the above areas is taken into account.	—·022	+·004	+·026	+·025	+·028	+·006	—·002	—·029	+·014	—·007	—·014	—·006	+·002

I.—The cold weather period.

(*a*) The mean 8 hrs. pressure of the Indian land area was in defect of the normal amount in January, and in very slight excess in February. These general abnormalities of pressure were traceable to temperature anomalies, which in their turn were determined, partly at least, by the character of the weather in respect of rainfall.

The statement below shows the interdependence of pressure, temperature and rainfall :—

TABLE 43.

Month.	Departure from normal.		
	8 hrs. pressure.	Temperature.	Rainfall.
	"	°	"
January	—·021	+2·0	—0·10
February	+·006	—0·8	+0·33

(*b*) The coincident departures of pressure at certain stations in the Indian Ocean and in the regions to the north and west of India are given in the table below :—

TABLE 44.

Station.	Departure of pressure from normal.		
	January.	February.	Period, January and February.
	"	"	"
Mauritius	+·072	+·052	+·062
Seychelles	+·015	+·006	+·011
Zanzibar	+·021	+·008	+·015
Aden	+·031	—·020	+·006
Perim	+·016	+·023	+·020
Baghdad	+·042	—·072	—·016
Bushire	+·001	—·073	—·036
Jask	—·032	—·041	—·033
Muscat	+·004	—·060	—·028
Kashgar	*—·022	*—·051?	*—·037?

*These numbers are queried because the normals are based upon very few years.

(*c*) The only persistent feature of the local distribution of pressure was a slight to moderate defect of pressure in the usual region of the winter rains in north-west India. It was however of no significance, being almost as conspicuous in the wet month of February as in

January when the rainfall was scanty and below normal :—

TABLE 45.

Division.	Excess of pressure departure over geographical mean for India.		
	January.	February.	Period, January and February.
	"	"	"
Burma	+·018	—·003	+·008
Eastern Bengal and Assam	—·014	+·011	—·002
Bengal	—·011	+·013	+·001
United Provinces	—·014	+·006	—·004
Punjab	—·015	0	—·008
North-West Frontier Province	—·030	—·011	—·021
Sind	—·018	—·027	—·023
Rajputana	—·007	—·014	—·011
Bombay	+·011	—·009	+·001
Central India	—·009	—·007	—·008
Central Provinces	+·003	—·006	—·002
Hyderabad	+·007	+·004	+·006
Mysore	+·011	—·004	+·004
Madras	+·011	—·002	+·005

(*d*) The vertical pressure gradient was unusually small in January which was a very dry month, and well above its normal value in February during which period weather was much more disturbed than usual.

TABLE 46.

Pair of stations.	Departure from normal of vertical pressure differences.				
	October 1906	November 1906.	December 1906.	January 1907.	February 1907.
	"	"	"	"	"
Lahore and Leh	—·013	—·045	—·038	—·083	+·025
Jacobabad and Quetta	+·018	—·018	—·006	—·062	+·043
Peshawar and Murree	—·027	—·037	—·029	—·047	+·016
Ludhiana and Simla	—·003	—·008	+·001	—·038	+·039
Roorkee and Chakrata	+·003	—·003	+·002	—·030	+·039
Dhubri and Darjeeling	—·006	—·010	—·022	—·066	+·003
Deesa and Mount Abu	+·008	—·012	—·010	—·019	+·010
Khandwa and Pachmarhi	+·013	—·007	—·005	—·004	+·006

II.—The hot weather period.

(*a*) Pressure was above normal throughout the period by amounts averaging ·025″.

The general pressure conditions of the period at the level of the plains were thus similar to those which held in the corresponding season of 1905 when the mean departure was +·031″.

TABLE 47.

Month.	Departure from normal of mean 8 hrs. pressure.
	"
March	+·026
April	+·025
May	+·025

(*b*) The local features of the pressure distribution over a large part of the country were neither persistent nor strongly marked :—

TABLE 48.

Division.	Excess of pressure departure over geographical mean of India.			
	March.	April.	May.	Period, March to May.
	"	"	"	"
Burma	—·002	—·016	—·024	—·014
Eastern Bengal and Assam	+·032	+·004	—·018	+·006
Bengal	+·018	+·012	—·007	+·008
United Provinces	+·015	+·010	+·003	+·009
Punjab	+·017	+·007	+·018	+·014
North-West Frontier Province	+·003	—·012	+·015	+·002
Sind	—·007	—·013	+·036	+·005
Rajputana	—·008	—·007	+·024	+·003
Bombay	—·016	—·010	+·008	—·006
Central India	—·009	+·001	+·020	+·004
Central Provinces	—·014	+·013	+·014	+·004
Hyderabad	—·008	+·012	—·006	—·001
Mysore	—·018	—·012	—·005	—·012
Madras	—·014	—·001	—·005	—·007

(*c*) The vertical gradient was very steep throughout the period, and during March and April this feature was associated with very wet weather.

TABLE 49.

Pair of stations.	Departure from normal of vertical pressure differences.			
	March.	April.	May.	Period, March to May.
	"	"	"	"
Lahore and Leh	+·123	+·052	+·050	+·075
Jacobabad and Quetta	+·040	+·037	+·035	+·037
Peshawar and Murree	+·054	+·007	+·026	+·029
Ludhiana and Simla	+·082	+·057	+·036	+·058
Roorkee and Chakrata	+·084	+·053	+·022	+·053
Dhubri and Darjeeling	+·043	+·025	—·008	+·022
Deesa and Mount Abu	+·016	+·045	+·001	+·021
Khandwa and Pachmarhi	+·017	+·025	+·018	+·020

(*d*) The pressure conditions were unsteady in east Turkistan, Persia, Arabia and the equatorial belt. On the average of the three months pressure was in slight defect at Mauritius and Baghdad, and in marked defect in Kashgar.

TABLE 50.

Station.	Departure of pressure from normal.			
	March.	April.	May.	Period, March to May.
	"	"	"	"
Mauritius	+·007	—·028	—·027	—·016
Seychelles	+·030	—·030	—·005	—·002
Zanzibar	+·022	—·033	—·012	—·008
Aden	+·023	+·008	+·053	+·028
Perim	+·011	+·013	?	?
Baghdad	—·067	—·032	+·029	—·023
Bushire	—·012	+·002	+·050	+·013
Jask	—·034	—·026	+·055	—·002
Muscat	—·010	+·039	+·076	+·035
Kashgar	*—·086?	*—·111?	*—·021?	*—·073?

* These numbers are queried because the normals are based upon very few years.

III.—The south-west monsoon period.

(*a*) Pressure was unsteady during this period; thus it was practically normal in June and July, in considerable defect in August and slightly above normal in September:—

TABLE 51.

Month.	Departure from normal of mean 8 hrs. pressure.
	"
June	+·001
July	—·005
August	—·027
September	+·010

(*b*) Pressure was locally in excess over the Peninsula, and central and northwest India, and in defect over the rest of the country: the anomalies were however generally small:—

TABLE 52.

Division.	Excess of pressure departure over geographical mean for India.				
	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"
Burma	—·002	+·006	—·002	—·019	—·004
Eastern Bengal and Assam.	—·012	+·011	—·027	—·035	—·016
Bedgal	—·034	+·005	—·045	—·021	—·024
United Provinces	+·005	—·015	—·012	—·010	—·008
Punjab	+·028	+·011	+·006	—·016	+·007
North-West Frontier Province.	+·045	+·011	+·009	—·040	+·006
Sind	+·029	+·031	—·002	+·021	+·020
Rajputana	+·029	+·025	—·006	+·028	+·019
Bombay	+·009	+·008	+·009	—·033	+·014
Central India	+·011	—·002	—·009	+·036	+·009
Central Provinces	+·007	+·003	—·004	+·038	+·011
Hyderabad	+·009	—·013	+·015	+·015	+·007
Mysore	+·004	—·018	+·034	+·001	+·005
Madras	—·005	—·015	+·035	+·001	+·004

(*c*) The vertical distribution of pressure was rather abnormal in character; thus there was a defect of pressure at the level of the hill stations, relatively to the neighbouring plains, in June and in some cases in September also; while opposite though feebly marked conditions prevailed in the two intervening months.

TABLE 53.

Pair of stations.	Departure from normal of vertical pressure differences.				
	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"
Lahore and Leh	+·033	—·015	—·018	—·022	—·006
Jacobabad and Quetta	+·065?	+·061?	+·011?	+·019?	+·039?
Peshawar and Murree	+·041	—·002	—·013	—·048	—·006
Ludhiana and Simla	+·018	—·007	—·004	+·001	+·002
Roorkee and Chakrata	—·001	—·023	—·003	+·006	—·005
Dhubri and Darjeeling	+·004	+·004	—·037	—·007	—·009
Deesa and Mount Abu	0	+·001	—·003	+·024	+·005
Khandwa and Pachmarhi	+·005	—·008	+·028	+·020	+·011

The abnormalities of pressure revealed by these data may possibly have been connected with the prevalence of disturbances of an unusual character which occurred in the north during the greater part of the period, and with the failure of the rains in September.

(*d*) The departures from the normal distribution of pressure over the Indian monsoon region outside India are shown below :—

TABLE 54.

Station.	Departure of pressure from normal				
	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"
Mauritius	—·064	—·025	+·002	—·018	—·026
Seychelles	+·007	—·045	+·040	+·017	+·005
Zanzibar	—·013	+·002	+·032	+·021	+·011
Aden	+·031	+·007	+·032	+·024	+·024
Perim	+·063	+·123*	+·112	+·033	+·083*
Baghdad	—·011	+·023	—·051	—·027	—·017
Bushire	+·011	+·010	—·058	—·007	—·011
Jask	+·003	+·002	—·063	+·026	—·008
Muscat	+·026	+·015	—·037	+·026	+·008
Kashgar	—·049*	—·026*	—·050*	—·072*	—·049*

* These numbers are queried because the normals are based upon very few years.

It will be seen from the preceding data that the pressure conditions in the south of the Indian Ocean as represented by Mauritius were, during the greater part of the period, such as are associated with a good monsoon in India.

IV.—The period of the retreating south-west monsoon.

(*a*) Pressure was below normal throughout the period by amounts averaging ·010".

TABLE 55.

Month.	Departure from normal of mean 8 hrs. pressure.
	"
October	—·006
November	—·014
December	—·008

(*b*) The defect of pressure during October and November extended much beyond the limits of India.

TABLE 56.

Station.	Departure of pressure from normal.			
	October.	November.	December.	Period, October to December.
	"	"	"	"
Mauritius	—·025	—·021	—·033	—·026
Seychelles	+·005	—·006	+·010	+·003
Zanzibar	+·006	—·005	+·011	+·004
Aden	+·016	—·020	+·018	+·005
Baghdad	+·029	—·014	+·034	+·033
Bushire	—·005	—·020	+·020	—·002
Jask	—·003	—·036	+·010	—·010
Muscat	—·005	—·020	+·020	—·002
Kashgar	—·113	—·027	+·018	—·040

(*c*) The only important features in the local distribution of pressure were a tendency in October for the barometer to be lower in respect to the normal in Burma and northeast India than in the Peninsula, and a reverse tendency in the two succeeding months.

TABLE 57.

Division.	Excess of pressure departure over geographical mean of India.			
	October.	November.	December.	Period, October to December.
	"	"	"	"
Burma	—·004	+·006	—·005	—·001
Eastern Bengal and Assam	—·003	+·017	—·006	+·003
Bengal	—·002	+·010	+·001	+·003
United Provinces	—·012	0	+·012	0
Punjab	—·020	—·001	+·016	—·002
North-West Frontier Province	—·034	—·023	—·001	—·019
Sind	+·013	—·009	+·015	+·007
Rajputana	+·005	—·001	+·012	+·006
Bombay	+·010	—·010	—·004	—·001
Central India	+·004	—·001	+·013	+·005
Central Provinces	+·012	+·001	+·003	+·005
Hyderabad	+·014	—·013	—·019	—·006
Mysore	+·007	—·007	—·012	—·004
Madras	+·006	—·004	—·009	—·002

(*d*) The vertical gradient was smaller than usual during the whole of the period—a circumstance unfavourable for an early winter.

TABLE 58.

PAIR OF STATIONS.	DEPARTURE FROM NORMAL OF VERTICAL PRESSURE DIFFERENCES.			
	October.	November.	December.	Period, October to December.
	"	"	"	"
Lahore and Leh	—·046	—·059	—·038	—·048
Jacobabad and Quetta	+·001	—·016	—·036	—·017
Peshawar and Murree	—·046	—·062	—·040	—·049
Ludhiana and Simla	—·012	—·005	+·020	+·001
Roorkee and Chakrata	—·015	—·011	—·002	—·009
Dhubri and Darjeeling	—·013	—·010	—·017	—·013
Deesa and Mount Abu	+·011	—·016	+·004	0
Khandwa and Pachmarhi	—·008	—·025	+·004	—·010

The year:—

(*a*) The average pressure of the country (as determined from 10 hrs. and 16 hrs. observations) was above normal from March to June and in September, and below it during the rest of the year. The departures during a large part of the year were small in amount and compensatory in character, and as the net result the pressure of the whole year differed by only —·003" from the normal average of the country. The defect was as usual slightly more marked in the extra-tropical parts of India than within the tropics.

TABLE 59.

MONTH.	DEPARTURE FROM NORMAL OF MEAN PRESSURE.		
	Extra-tropical India.	Tropical India.	Whole India.
	"	"	"
January	—·017	—·015	—·016
February	—·012	—·010	—·011
March	—·001	+·005	+·002
April	+·001	+·015	+·008
May	+·012	+·019	+·015
June	+·007	+·002	+·004
July	+·002	—·006	—·002
August	—·031	—·012	—·022
September	—·003	+·023	+·010
October	—·015	+·001	—·007
November	—·009	—·021	—·015
December	+·007	—·021	—·006
Whole year	—·005	—·002	—·003

From the corresponding data of temperature given below it will be seen that in only four out of the twelve months the departures of temperature had the same sign as those of pressure—an indication that during a large part of the year there was at least a partial interdependence of the two elements.

TABLE 60.

MONTH.	DEPARTURE FROM NORMAL OF	
	Pressure.	Temperature.
	"	°
January	—·016	+2·1
February	—·011	—0·8
March	+·002	—3·1
April	+·008	—3·2
May	+·015	—1·3
June	+·004	0
July	—·002	+1·4
August	—·022	—0·5
September	+·010	+0·9
October	—·007	+1·6
November	—·015	+2·0
December	—·006	—0·1
Year	—·003	—0·1

(*b*) The defect of pressure was on the whole more marked at the level of the hill stations in northwest and central India than in the plains, and the vertical gradients were accordingly steeper than usual :—

TABLE 61.

PAIR OF STATIONS.	Departure from normal of vertical pressure differences.
	"
Lahore and Leh	0
Jacobabad and Quetta	+·017
Peshawar and Murree	—·009
Ludhiana and Simla	+·014
Roorkee and Chakrata	+·010
Dhubri and Darjeeling	—·006
Deesa and Mount Abu	+·006
Khandwa and Pachmarhi	+·007

(c) Pressure was on the mean of the year almost identical with the normal at Zanzibar and Seychelles, and in very slight defect at Mauritius.

Below are given the departures and progressive changes of pressure in the Indian land area during the past 33 years.

TABLE 62.

Year.	Number of stations.	Mean pressure.	Progressive variation.
		"	"
1875	33	—·007	
1876	35	—·007	000
1877	59	+·032	+·039
1878	65	+·002	—·030
1879	81	—·014	—·016
1880	93	—·003	+·011
1881	98	+·002	+·005
1882	93	—·010	—·012
1883	105	—·005	+·005
1884	107	+·010	+·015
1885	113	+·014	+·004
1886	118	—·003	—·017
1887	117	—·006	—·003
1888	109	+·011	+·017
1889	76	+·004	—·007
1890	77	—·009	—·013
1891	73	+·010	+·019
1892	72	—·022	—·032
1893	66	—·001	+·021
1894	68	—·012	—·011
1895	66	+·003	+·015
1896	68	—·001	—·004
1897	74	—·003	—·004
1898	75	—·018	—·013
1899	51	+·004	+·022
1900	49	+·010	+·006
1901	47	+·005	—·005
1902	46	+·011	+·006
1903	46	+·001	—·010
1904	46	—·003	—·004
1905	46	+·009	+·012
1906	45	—·002	—·011
1907	23	—·003	—·001

STORMS.

Below is given a statement, drawn up in the same form as in previous years, of the cyclonic storms formed in the Indian Seas during 1907. The tracks of these storms are given in Plate vi at the end of the Summary.

BAY OF BENGAL.

No.	Month.	Date.	Greatest observed barometric depression.	Character of storm.	Details of storm.
1	March ...	8th to 10th ...	0·5" (?) ...	Probably a storm of considerable intensity.	This storm formed over the south of the Bay during the 7th, and advancing along a course between west and south, broke up over the southeast of Ceylon during the 10th. The *Vadala*, which was involved in the storm area, experienced winds of hurricane violence on the early morning of the 8th. The storm did considerable damage to the town of Batticola. It may be noted that storms are of exceptional occurrence in the Bay in March, the only other instance on record having occurred in March 1892.
2	May ...	15th and 16th	0·16" (?) ...	Feeble	This storm originated off the Arakan coast during the 14th; from there it travelled in an easterly direction, and was broken up as a definite system by the obstructive action of the Arakan Yoma. The strongest winds due to the storm were of force 6 or 7.
3	June ...	18th to 20th	0·38" ...	Cyclonic storm of moderate intensity.	This storm formed during the 12th in the neighbourhood of the Circars coast in front of the first advance of monsoon winds and, travelling along a curved path parallel to the coast, passed across the Sandheads on the morning of the 18th. It then turned to west of north and, passing through west Bengal, disappeared in the vicinity of Chota Nagpur during the 20th. Gales were experienced by several vessels during its existence over the Bay.
4	„ ...	23rd to 26th	0·63" ...	Severe cyclonic storm	This storm formed on the 21st and 22nd over the head of the Bay nearly midway between False Point and Akyab, and thence travelled by a curved path into Chota Nagpur where it was broken up during the 26th. Winds of force 6 to 10 were experienced in the southern half of the storm.
5	August ...	12th to 18th	0·28" ...	Cyclonic storm of moderate intensity.	This storm formed near the Orissa coast on the 11th and crossed the coast on the morning of the 14th. The centre was nearly midway between Chaibassa and Pendra at 8 hrs. of the 15th, near Sutna on the 16th, to the south of Agra on the 17th, and between Bikaner and Jodhpur on the 18th. Winds of force 6 were experienced by several vessels during its early stages.
6	„ ...	26th and 27th	0·2" ...	Cyclonic storm of feeble intensity.	This storm formed over the head of the Bay in the vicinity of the Orissa coast during the 25th and thence advanced along a north by west path into southwest Bengal, where it broke up as a definite system during the 27th. The maximum force of the winds due to the storm was 6.
7	October ...	5th and 6th...	0·3" ...	Cyclonic storm of moderate intensity.	This storm originated over the north of the Bay during the 4th and, advancing in a northeasterly direction, broke up on the 6th on reaching the Chittagong coast. The strongest winds reported by vessels passing through the storm were of force 7.

BAY OF BENGAL—*concld.*

No.	Month.	Date.	Greatest observed barometric depression.	Character of storm.	Details of storm.
8	October ...	13th to 18th	1·5"(F) ...	Severe ...	This storm formed to the north of the Andamans during the 12th. The centre advanced northwestwards from about Lat. 15°N and Long. 91°E on the 13th to Lat. 16½°N and Long. 85½°E on the 15th; the storm then changed its course and during the next four days marched in a roughly southwesterly direction and lay off Madras on the morning of the 18th. It could not surmount the Eastern Ghats and was speedily broken up. Hurricane winds were experienced by the *Strathdee* on the 14th.
9	November ...	12th to 15th...	0·35" ...	Cyclonic storm of moderate intensity.	This storm formed over the south of the Bay on the 11th, and thence travelled in a northwesterly direction to the neighbourhood of Masulipatam where it broke up on the 15th. The *Braziliana* experienced winds of force 8 on the 14th.
10	„ ...	24th to 26th...	0·2" ...	Cyclonic storm of moderate intensity.	This storm appeared over the southeast of the Bay on the 24th; it advanced westnorthwestwards towards the Madras coast at an average rate of about 20 miles an hour, and broke up during the 26th on reaching land. The greatest force of the winds experienced over the Bay during its existence was 7.

ARABIAN SEA.

No.	Month.	Date.	Greatest observed barometric depression.	Character of storm.	Details of storm.
1	June ...	4th to 6th ...	0·35" (?) ...	Probably a storm of considerable intensity.	This storm was the development of a low pressure area which moved up the west coast of the Peninsula in front of the first advance of monsoon winds. It proceeded northwards from about Lat. 20° N., Long. 67° E. on the 4th to a position about 70 miles west of Kurrachee at 8 hrs. of the 6th. After crossing the coast the disturbance diminished rapidly in intensity and travelled up the valley of the Indus as a slight residual depression. Winds of over 70 miles an hour were felt at Kurrachee during the height of the storm; over the sea the strongest winds *actually* experienced by vessels, which were however at a great distance from the centre, were of force 9.
2	" ...	18th to 20th...	0·6" (?) ...	Cyclonic storm of considerable intensity (?).	Like the previous storm this also originated in an area of low pressure which passed northwards up the east of the sea. It followed however a different path, travelling from a position about 220 miles to the west of Veraval on the 18th to Lat. 23½° N., Long. 66½° E. on the 20th, its position on the intervening day being 21½° N., Long. 65½°. The *Colaba* experienced winds of hurricane violence near the centre on the 18th.
3	November ...	9th to 13th ...	0·6" (?) ...	Cyclonic storm of moderate or considerable intensity (?).	This storm apparently formed over the Arabian Sea nearly midway between Socotra and the north Malabar coast during the 8th, and advancing in a west by north direction was central in Lat. 13½° N., Long. 58½° at 8 hrs. of the 10th. It recurved considerably during the next four days and disappeared over the sea off Kuria Muria during the 13th. Winds of force 9 were experienced by the *City of Kurrachee* on the 11th.

Winds.

The mean direction of the wind and the mean diurnal movement of the air, as measured by Robinson anemometers, are given for all second class stations in Table A in each Monthly Weather Review. The normal values are also stated for the sake of ready comparison. The normal data of these elements, utilized in Table A of the Monthly Reviews of the year 1907 will be found in a collected form in Tables XXII, XXVI and XXVII of Vol. XVII of Indian Meteorological Memoirs. The mean 8 hrs. wind directions for each month are laid down in the first chart in each Monthly Review. They are calculated in the usual manner by finding the resultant of equal winds in the directions actually observed at 8 hrs. and given in Table B in each Monthly Review. As a general rule, the mean 8 hrs. wind directions vary little from the mean wind directions (calculated from the 10 and 16 hrs. wind data) in Table A of the Monthly Reviews, but in some cases and at certain seasons of the year they differ very considerably. The normal values used in Table B have been published in Vol. XVII of the departmental Memoirs.

The following is a summary of the more important features of the air movement over India for each period of the year 1907 :—

I.—The cold weather period.

(*a*) Over a large part of the country winds were of about their average steadiness, but feebler than usual.

(*b*) The direction of air movement varied a good deal from the normal in places, but the deviations were neither persistent nor of any significance from the standpoint of weather.

(*c*) In equatorial regions, as represented by Zanzibar and the Seychelles, the air motion was in all respects practically normal in January, during which month unusually dry weather prevailed in India; during February the movement was more easterly than usual and below the average strength and steadiness, while in India weather was very unsettled. The anomalous features of the air movement as observed in the lower strata of the atmosphere over India and the equatorial belt thus throw no light on the abnormalities of the weather of the period.

II.—The hot weather period.

(*a*) Over the land area of India the air movement was on the whole less strong than is usual during the period, this feature being most marked in the Indus valley. The steadiness was decidedly low in Burma, Bengal, Central India and Mysore, and about the average over the rest of the country.

(*b*) Land winds prevailed steadily during March over the head of the Bay where ordinarily sea breezes set in towards the end of February :—

TABLE 63.

Station.	WIND DIRECTION, MARCH. Actual.	Normal.
	°	°
Saugor Island	N 68 W	S 49 W
Barisal	N 18 E	S 18 W

(*c*) The air movement was unusual in direction during May over a large part of northwest India, on the west coast and in parts of the Deccan, the circulation in those regions being such as usually prevails during March.

TABLE 64.

Station.	WIND DIRECTION, MAY. Actual.	Normal.
	°	°
Meerut	N 18 W	S 54 W
Ludhiana	N 70 E	S 44 E
Lahore	N 10 E	N 72 E
Multan	N 46 E	S 12 E
Sirsa	N 23 W	S 39 W
Jaipur	N 32 W	S 83 W
Jacobabad	N 45 W	S 53 E
Kurrachee	N 68 W	S 56 W
Bhuj	N 77 W	S 77 W
Ratnagiri	N 26 E	N 48 W
Karwar	N 34 E	N 30 W
Calicut	N 29 E	N 15 W
Hyderabad Deccan	N 65 W	S 82 W

(*d*) In the hill districts the deviations from normal directions were local and temporary.

(*e*) Over the equatorial regions the air movement had much more than its normal velocity in the eastern half, and was very unsteady in the western half, during the first three weeks of May.

III.—The south-west monsoon period.

4.—During June and July, when the rainfall was in general well below the normal, the air movement was characterized by several abnormal features of which the following were the more noteworthy :—

(*a*) There was an excess of the southerly or a deficiency of the westerly element in the wind direction over Burma—a circumstance unfavourable for abundant rainfall in that region.

TABLE 65.

Station.	WIND DIRECTION.			
	JUNE.		JULY.	
	Actual.	Normal.	Actual.	Normal.
	°	°	°	°
Mergui	S 1 E	S 79 W	S 8 E	S 70 W
Tavoy	S 45 W	S 55 W	S 45 W	S 61 W
Rangoon	S 7 W	S 37 W	S 29 W	S 45 W
Bassein	S 8 W	S 18 W	S 9 W	S 18 W
Diamond Island	S 29 W	S 39 W	S 48 W	S 43 W
Mandalay	S 14 E	S 1 W	S 15 W	S 5 E
Bhamo	N 45 E	N 81 W	S 23 E	N 70 W

(*b*) In the northern and western districts of northeast India the southerly element was either altogether suppressed or very weak, and the resultant direction, particularly in June, was on the whole from between north and east, thus indicating the failure of the Bay current to penetrate fully into these areas.

TABLE 66.

Station.	WIND DIRECTION.			
	JUNE.		JULY.	
	Actual.	Normal.	Actual.	Normal.
	°	°	°	°
Bogra	N 75 E	S 66 E	E	S 48 E
Jalpaiguri	N 76 E	S 86 E	N 85 E	N 88 E
Purnea	N 61 E	N 84 E	E	S 81 E
Darbhanga	N 62 E	S 75 E	N 87 E	S 80 E
Patna	N 74 E	S 87 E	S 87 E	N 81 E
Gaya	N 66 E	S 66 E	S 6 W	S 2 E
Benares	N 78 E	S 89 E	S 24 E	S 7 E
Allahabad	N 9 E	N 46 E	S 45 W	S 27 W

(*c*) There was an undue preponderance of northerly components in northwest and central India up to the level of the lower hill stations. This would indicate the existence of a fairly deep dry current in this region, not improbably connected with heavy snowfall in the mountain zone bordering upper India.

TABLE 67.

Station.	WIND DIRECTION.			
	JUNE.		JULY.	
	Actual.	Normal.	Actual.	Normal.
	°	°	°	°
Cherat	N 8 W	S 79 E	N 66 W	S 18 E
Murree	N 88 E	S 63 E	N 15 E	S 86 E
Simla	N 23 W	N 41 E	N 15 W	N 31 E
Delhi	N 47 W	S 44 E	N 52 W	S 22 E
Sirsa	N 84 W	S 27 W	S 71 W	S 16 W
Lahore	N 24 W	S 60 E	N 83 W	S 42 E
Sialkot	N 41 E	N 81 E	N 43 E	S 85 E
Jaipur	N 68 W	S 88 W	N 68 W	S 73 W
Indore	N 23 W	S 87 W	N 79 W	S 81 W
Khandwa	N 52 W	N 87 W	N 60 W	W

(*d*) The air motion was neither as steady nor as vigorous as usual in Burma, parts of northwest India and the greater part of the Peninsula: it was on the other hand very steady in Rajputana and northeast India particularly during July.

TABLE 68.

Division.	DEPARTURE FROM NORMAL OF WIND STEADINESS.		DEPARTURE FROM NORMAL OF HOURLY WIND VELOCITY.	
	June.	July.	June.	July.
Burma	— 9	—11	—0·3	—0·7
Eastern Bengal and Assam	+ 4	+·7	+0·8	—0·9
Bengal	— 8	+13	+1·2	0
United Provinces	— 3	+ 9	—0·2	+0·2
Punjab	—13	— 9	+0·3	+0·8
North-West Frontier Province	+ 3	+ 1	—0·8	—1·1
Sind	—21	+ 3	—4·6	—3·8
Rajputana	+ 4	+14	+0·8	—0·1
Bombay	— 5	— 7	—0·7	— 3·2
Central India	— 3	+ 4	—0·5	—0·7
Central Provinces	— 3	— 5	+1·3	—0·4
Hyderabad	+ 4	— 5	—1·3	—4·9
Mysore	— 5	— 8	—0·9	—1·5
Madras	+ 4	— 5	+1·5	+0·3

(*c*) In the Indian Ocean, as represented by Zanzibar, Seychelles and Mauritius, the air movement differed in some important respects from the normal in July.

TABLE 69.

Station.	Daily wind velocity, July.			Wind direction, July.	
	Actual.	Normal.	Departure from normal.	Actual.	Normal.
				°	°
Zanzibar	252	197	+55	S 5 E	S 6 E
Seychelles	321	289	+32	S 5 E	S 33 E
Mauritius	261	287	−26	S 49 E	S 64 E

B.—In August, the month of unusually abundant rainfall, the chief features were:—

(*a*) The air circulation was on the whole steadier than usual: the velocity was however practically normal, except locally in Madras, the Central Provinces and Sind.

TABLE 70.

Division.	Departure from normal of	
	Wind steadiness, August.	Hourly wind velocity, August.
Burma	+ 1	+0·1
Eastern Bengal and Assam	+13	−0·1
Bengal	+ 6	+0·7
United Provinces	+ 3	−0·5
Punjab	−14	+0·1
North-West Frontier Province	+ 6	−0·9
Sind	−10	−4·0
Rajputana	−29	−0·5
Bombay	+ 7	+1·1
Central India	+ 7	+0·1
Central Provinces	+13	+2·2
Hyderabad	+ 1	+0·2
Mysore	+ 7	+0·9
Madras	+ 7	+2·1

(*b*) Winds blew with more than their usual southerly component in the Peninsula, and with a strong easterly component in the Punjab:—

TABLE 71.

Station.	Wind direction, August.	
	Actual.	Normal.
	°	°
Ratnagiri	S 64 W	S 74 W
Karwar	S 53 W	N 81 W
Sholapur	S 67 W	S 83 W
Bijapur	S 72 W	S 82 W
Belgaum	S 72 W	S 83 W
Gulbarga	S 54 W	N 75 W
Raichur	S 48 W	S 81 W
Mysore	S 64 W	S 72 W
Cochin	S 60 W	N 13 W
Pamban	S 13 W	S 43 W
Trichinopoly	S 57 W	S 85 W
Cuddalore	S 52 W	S 73 W
Kurnool	S 73 W	N 89 W
Waltair	S 55 W	S 84 W
Delhi	S 31 E	S 27 W
Sirsa	S 33 E	S 42 W
Montgomery	S 46 E	S 12 W
Multan	S 56 E	S 14 E

(*c*) Over Chota Nagpur and the neighbouring districts the wind was deflected from its normal course owing to the abnormally low pressure of south-west Bengal.

TABLE 72.

Station.	Wind direction, August.	
	Actual	Normal.
	°	°
Burdwan	N 80 E	S 32 E
Sambalpur	S 82 W	S 30 W
Chaibassa	N 10 E	S 54 W
Ranchi	N 48 E	S 56 W
Hazaribagh	S 80 E	S 5 W
Gaya	N 37 E	S 52 E
Benares	N 49 E	S 54 E
Allahabad	N 22 W	N 79 W

(*d*) As in the previous month there was more southing and less easting than usual in the prevalent wind direction at the island stations in the Indian Ocean.

C.—(*a*) In an average September easterly winds persist in the Gangetic plain and in the east Punjab along the foot of the Himalayas, but in 1907 winds from the opposite quarter predominated over that region and extended well into the central districts of Bihar. In the central parts of the country and the Deccan the northerly element in the winds was *much* in excess; while on the *west coast the direction* varied *very irregularly* from the normal. In fact the air circulation over northern India was such as is characteristic of April rather than of September.

TABLE 73.

Station.	WIND DIRECTION, SEPTEMBER. Actual.	Normal.
	°	°
Lahore	S 32 W	S 24 E
Ludhiana	S 83 W	S 20 E
Roorkee	N 50 W	S 58 E
Bareilly	N 41 W	S 56 E
Bahraich	N 25 W	S 68 E
Lucknow	N 75 W	S 83 E
Patna	N 50 W	S 74 E
Jaipur	N 50 W	N 68 W
Mainpuri	N 61 W	S 86 W
Indore	N 46 W	N 60 W
Khandwa	N 50 W	N 79 W
Pachmarhi	N 52 W	N 85 W
Surat	N 56 W	S 78 W
Sholapur	N 45 W	N 68 W
Bijapur	N 53 W	N 87 W
Hyderabad Deccan	N 61 W	N 83 W
Bombay	N 34 W	S 56 W
Ratnagiri	N 17 E	S 73 W
Karwar	S 82 W	N 86 W
Calicut	S 67 W	N 30 W

These peculiarities of the wind system were closely connected with the abnormal distribution of pressure, of which the chief features were a considerable defect along the base of the Himalayas, and a marked excess over Gujarat and the west of Central India and of the Central Provinces.

(*b*) As might be anticipated from the character of the pressure distribution, the air movement was very steady over northern and central India, but was in general somewhat below the average rate. Over the Peninsula both steadiness and velocity were low.

(*c*) At the observing stations in equatorial regions the directions were such as are usual, but the movement and steadiness were below the average. At Mauritius the direction of air movement was again more southerly than in a normal year, and the velocity was in decided defect.

D.—The preceding discussion has shown that the deviations from the normal type of air movement were chiefly local and temporary. The data for the whole period June to September indicate that the monsoon currents were of approximately normal intensity over practically the whole of the country with the exception of Sind and Hyderabad. Since the rainfall over the Indian region was in decided defect in seven of the fourteen chief political divisions, it is clear that there was no close correspondence between the departures of rainfall and those of the air movement.

The available marine information shows that over the east and south of the Arabian Sea winds were abnormal in direction during the first fortnight of July, blowing on most days from a direction between west and north. The latter feature was apparently associated with the prevalence at the time of very unusual winds over the west of the Indian Ocean. Thus the *SS Monsoorie* which left Mauritius for Bombay on the 3rd experienced between Mauritius and the parallel of 12° S. east to north-east winds of force three to six; and thence to the equator which she crossed about 300 miles to the east of the Seychelles on the 10th, winds were light and very irregular.

There is also evidence in ships' logs of the prevalence over the west of the equatorial belt of very unusual conditions during the second half of August and in September. The statement below illustrates the character of the abnormalities of the air movement:—

TABLE 73*a*.

Date.	Name of vessel.	POSITION. Lat.	Long.	WIND. Direction.	Force.
		° ′			
16th August 1907	*Pirocsi* ...	4 12 S	61·03 E	E	2
17th " "	" ...	1·30 S	62·37 E	E by N	2
18th " "	" ...	1·21 N	63·20 E	Calm	0
28th " "	*Umsinga* ...	18·03 S	39·41 E	Var.	2
29th " "	" ...	15·03 S	42·19 E	Calm	0
30th " "	" ...	11·29 S	45·01 E	N. E.	4
3rd Sept. 1907	*Mozaffari* ...	7·46 S	59·04 E	N	2
4th " "	" ...	4·48 S	60·34 E	N	2
5th " "	" ...	1·57 S	62·32 E	S. E.	2
6th " "	" ...	1·12 N	63·32 E	Var.	2
18th " "	*Ocean Prince* ...	0·39 N	62·42 E	Var.	2
19th " "	" ...	4·21 N	64·46 E	N	4
20th " "	" ...	7·34 N	66·28 E	N.N.E.	4 to 5
21st " "	" ...	11·01 N	68·15 E	N	4

The data furnished by the *Pirocsi* are very noteworthy as showing that the commencement of abnormal actions in the equatorial belt preceded by a week the collapse of the monsoon in north west India.

IV.—The retreating south-west monsoon period.

(*a*) Winds were of about the usual strength over nearly the whole of India, and were remarkably steady in direction over the central parts of the country and in Sind.

TABLE 74.

Division.	Departure from normal of period, October to December.	
	Wind steadiness.	Hourly wind velocity.
Burma	—5	+0·5
Eastern Bengal and Assam	—6	—0·2
Bengal	+4	—0·1
United Provinces	—2	—0·5
Punjab	+4	+0·1
North-West Frontier Province	—1	—0·6
Sind	+13	—1·0
Rajputana	+11	+0·4
Bombay	—1	—1·0
Central India	+18	—0·8
Central Provinces	+9	0
Hyderabad	+10	—0·3
Mysore	—9	—0·8
Madras	—3	+0·9

(*b*) On the Madras coast the prevailing direction in November and December was considerably more easterly than is normally the case.

TABLE 75.

Station.	Wind direction.			
	November.		December.	
	Actual.	Normal.	Actual.	Normal.
	°	°	°	°
Waltair	N 81 E	N 15 W	N 28 E	N 31 W
Cocanada	N 88 E	N 12 E	N 71 E	N 5 E
Masulipatam	N 47 E	N 14 E	N 45 E	N 15 E
Nellore	N 88 E	N 44 W	N 6 W	N 51 W
Cuddalore	N 85 E	N 25 W	N 41 E	N 10 W

(*c*) At the hill stations in southern India the directions of movement agreed fairly well with those in the plains below, an indication that the drift of air from the Bay across the south of the Peninsula was at least 8,000 or 9,000 feet in depth: this is believed to be a greater depth than usual.

TABLE 76.

Station.	Height in feet.	Actual wind direction.	
		November.	December.
		°	°
Kodaikanal	7,698	N 11 E	N 87 E
Madura	447	N 8 E	N 9 E
Octacamund	7,332	S 79 E	N 88 E
Coimbatore	1,348	N 73 E	N 41 E

(*d*) The final withdrawal of the monsoon currents from the Bay occurred a little later than usual, at the end of the third week of December.

(*e*) In the west of the equatorial region, as represented by the Seychelles and Zanzibar, the trade winds circulation was of the usual type.

Humidity.

The departures from normal of the mean monthly and annual aqueous vapour pressure and relative humidity for the year 1907 are given in Tables 77 and 78. The normal values employed in the determination of the departures are given in Tables XXX and XXXIII of the Indian Meteorological Memoirs, Volume XVII. The four tables (Tables 79 to 82) give departure data of aqueous vapour pressure and relative humidity for each month of the year and for the year:—

1st.—For thirteen meteorological areas adopted in the geographical summaries of meteorological data in the Annual Reports issued by the department previous to 1891, and in the Geographical Summaries published in the Annual Summaries from 1891 onwards.

2nd.—For the fourteen chief political divisions.

TABLE 77.—*Departure of the monthly and annual mean vapour pressure data of 1907 from the average of past years.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		"	"	"	"	"	"	"	"	"	"	"	"	"
Burma	Rangoon	+·004	−·022	+·038	−·021	−·017	−·009	+·002	−·013	−·014	−·014	+·045	−·057	−·006
Bengal	Calcutta	+·041	+·025	−·033	−·056	−·068	−·019	+·001	−·013	−·012	−·015	−·025	−·022	−·016
United Provinces of Agra and Oudh.	Allahabad	−·001	+·075	−·027	+·041	−·096	−·127	−·137	−·066	−·169	−·221	−·098	−·097	−·072
	Dehra Dun	+·043	+·032	+·029	+·087	−·025	−·160	−·118	+·016	−·031	−·066	−·033	−·051	−·023
Punjab	Lahore	+·079	+·064	+·008	+·123	−·020	−·036	−·135	+·089	−·065	−·055	−·012	−·054	−·005
Rajputana	Jaipur	−·004	+·047	−·052	+·057	−·092	−·119	−·120	+·044	−·115	−·074	−·063	−·085	−·043
Bombay	Bombay	+·024	−·007	−·022	−·042	−·049	−·015	+·006	−·010	−·019	+·026	−·065	−·076	−·014
Central Provinces	Buldana	−·026	+·054	−·017	+·080	−·115	−·028	−·092	−·005	−·097	−·147	−·063	−·117	−·047
	Nagpur	−·030	+·079	+·004	+·109	−·106	−·049	+·008	−·017	−·061	−·083	−·031	−·053	−·019
Hyderabad	Hyderabad	−·002	+·005	−·007	+·011	−·165	−·071	−·012	−·023	−·060	−·170	−·017	−·046	−·016
Mysore	Bangalore	+·022	+·010	−·002	+·007	−·042	−·006	+·015	−·014	−·012	−·066	+·028	−·007	−·006
	Mysore	−·015	−·034	+·002	+·008	−·012	−·026	−·001	−·019	−·042	−·042	+·012	−·024	−·016
Madras	Madras	+·012	+·031	+·019	−·003	−·064	−·060	+·026	−·030	+·030	+·011	+·035	−·004	0
Station in the Bay	Port Blair	−·032	−·041	−·037	−·071	−·071	−·057	−·042	−·043	−·035	−·047	−·044	−·038	−·047
Kashmir	Srinagar	+·049	+·006	−·039	+·020	−·021	−·067	−·088	−·015	+·024	+·025	+·027	−·007	−·007
	Leh	+·016	+·003	−·016	−·003	−·019	−·034	+·038	+·004	−·014	−·007	−·005	−·011	−·003
Baluchistan	Quetta	−·017	+·014	−·040	−·007	−·064	−·065	−·071	−·017	−·046	−·024	−·025	−·039	−·033
Hill stations excluding Kashmir and Baluchistan.	Simla	+·008	−·009	−·015	+·015	−·037	−·106	−·109	−·014	−·027	−·051	−·024	−·045	−·033
	Chakrata	+·081	+·020	+·008	+·081	+·021	−·071	−·073	+·014	+·002	−·030	+·012	−·020	0
	Katmandu	−·007	+·011	−·030	+·013	−·049	−·043	−·017	−·001	−·004	−·027	+·016	−·048	−·016
	Darjeeling	+·026	+·024	+·005	+·023	+·031	−·006	+·009	+·028	+·023	+·012	+·025	+·008	+·017
	Pachmarhi	−·055	+·038	−·019	+·066	−·086	−·072	−·019	−·007	−·076	−·045	?	−·071	?
	Mount Abu	+·007	+·103	+·095	+·092	+·027	−·019	−·010	+·026	−·060	−·035	+·043	−·057	+·019
	Chikalda	−·016	+·054	0	+·074	−·079	−·063	+·006	0	−·030	−·040	−·039	−·060	−·016
Extra India	Zanzibar	−·006	+·004	−·045	−·003	−·019	−·033	−·070	−·031	−·038	−·007	−·019	−·030	−·024
	Seychelles	−·006	−·014	−·028	−·002	−·020	−·036	−·016	−·034	−·008	+·013	−·012	−·021	−·015
	Mauritius	−·077	−·030	−·003	−·006	−·027	+·019	−·025	−·066	−·045	−·005	+·037	+·067	−·012

TABLE 78.—*Departure of the monthly and annual mean relative humidity data of 1907 from the average of past years.*

DIVISION.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
BURMA	Rangoon	0	− 3	+ 2	− 2	+ 1	− 3	− 4	− 1	− 4	− 1	− 2	− 6	− 2
BENGAL	Calcutta	− 2	+ 1	+ 1	− 1	− 6	− 1	− 2	− 2	− 4	− 8	− 7	− 4	− 3
UNITED PROVINCES OF AGRA AND OUDH.	Allahabad	− 3	+13	+ 5	+ 8	− 7	−11	−19	0	−20	−24	−14	−18	− 7
	Dehra Dun	+ 2	+11	+16	+18	− 1	−17	−19	− 2	−10	−14	− 9	−11	− 3
PUNJAB	Lahore	+ 4	+17	+10	+18	0	0	−14	+ 2	− 9	− 7	− 5	− 9	+ 1
RAJPUTANA	Jaipur	− 8	+12	− 2	+ 9	− 7	−15	−19	+ 4	−16	−11	−12	−16	− 7
BOMBAY	Bombay	0	0	− 2	− 5	− 3	− 2	0	0	− 4	0	− 4	− 9	− 2
CENTRAL PROVINCES	Buldana	− 5	− 6	− 6	+13	− 9	− 4	−20	+ 3	−12	−24	−13	−17	− 8
	Nagpur	− 2	+14	+ 4	+19	− 6	− 4	− 3	+ 4	− 8	−11	− 7	− 3	0
HYDERABAD	Hyderabad	+ 1	+ 3	0	+ 9	−12	− 3	− 2	+ 4	− 9	−19	− 9	− 5	− 4
MYSORE	Bangalore	+ 2	+ 2	+ 1	+ 7	− 3	+ 1	+ 1	0	− 4	−11	+ 2	− 4	− 1
	Mysore	− 1	− 4	+ 1	+ 4	− 1	+ 1	− 2	+ 2	− 6	− 7	+ 1	− 2	− 1
MADRAS	Madras	+ 1	+ 2	+ 1	+ 1	− 7	− 7	0	− 7	− 2	0	+ 4	− 1	− 1
STATION IN THE BAY	Port Blair	− 3	− 1	+ 2	− 5	− 1	− 6	− 2	− 4	− 5	− 2	+ 3	− 2	− 2
KASHMIR	Srinagar	+ 1	− 3	0	+ 2	+ 2	0	− 5	− 2	− 4	− 4	− 2	− 6	− 2
	Leh	+10	+ 7	+ 5	0	− 3	− 2	− 3	+ 4	− 3	− 3	− 6	− 3	0
BALUCHISTAN	Quetta	−16	+ 9	− 5	+ 3	− 4	+ 2	− 7	− 1	− 5	− 2	− 7	−10	− 4
HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN.	Simla	− 4	+14	+13	+12	− 3	−16	−20	+ 1	− 2	−14	− 9	−16	− 4
	Chakrata	0	+19	+24	+23	+ 4	−14	−19	+ 3	− 4	−12	− 3	−11	+ 1
	Katmandu	− 5	+ 3	+ 4	+ 6	− 6	− 4	+ 1	− 2	− 1	− 5	0	− 5	+ 1
	Darjeeling	− 4	+ 7	+ 3	+10	+ 3	0	− 1	− 2	− 1	− 1	+ 1	−10	+ 1
	Pachmarhi	−10	+12	+ 1	+14	− 7	− 9	−12	+ 3	−11	−10	?	− 9	?
	Mount Abu	− 2	+30	+18	+18	+ 5	− 1	− 3	+ 7	− 4	− 5	+ 4	−11	+ 4
	Chikalda	0	+16	+ 4	+15	− 6	− 3	− 7	+ 2	− 3	−18	−10	− 3	− 2
EXTRA INDIA	Zanzibar	+ 2	0	− 5	0	− 2	− 4	− 3	− 3	− 4	− 2	− 4	− 4	− 3
	Seychelles	− 1	− 1	− 4	− 1	− 3	− 4	− 3	− 2	0	− 1	− 3	− 4	− 2
	Mauritius	− 3	− 2	0	− 1	− 2	+ 4	− 3	− 7	− 4	− 2	+ 2	+17	− 1

TABLE 79.—*Geographical summary of the aqueous vapour pressure departure data of Table A in the Monthly Weather Reviews of 1907.*

METEOROLOGICAL AREA.	Number of stations.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
		"	"	"	"	"	"	"	"	"	"	"	"	"
North-West Himalayas	4	+·026	+·010	—·016	+·028	—·014	—·070	—·054	—·008	—·004	—·016	+·003	—·021	—·011
Sikkim Himalayas and Nepal	2	+·010	+·018	—·013	+·018	—·009	—·025	—·004	+·014	+·010	—·008	+·021	—·020	+·001
Punjab Plains	1	+·079	+·064	+·008	+·123	—·020	—·036	—·135	+·039	—·065	—·055	—·012	—·054	—·005
Gangetic Plain	2	+·021	+·054	+·001	+·064	—·061	—·144	—·125	+·005	—·100	—·144	—·066	—·074	—·047
Western Rajputana	1	+·007	+·103	+·095	+·092	+·027	—·019	—·010	+·036	—·060	—·035	+·013	—·057	+·019
Eastern Rajputana and Central India	1	—·004	+·047	—·052	+·057	—·092	—·119	—·120	+·044	—·115	—·074	—·063	—·085	—·048
Lower Bengal	1	+·041	+·025	—·033	—·056	—·068	—·019	+·001	—·013	—·012	—·015	—·025	—·022	—·016
Central Provinces (South) and Berar	4	—·032	+·061	—·008	+·082	—·096	—·053	—·024	—·007	—·066	—·079	—·044	—·074	—·028
Konkan	1	+·034	—·007	—·022	—·042	—·049	—·015	+·006	—·010	—·010	+·026	—·005	—·076	—·014
Deccan, Hyderabad and Mysore	3	+·002	—·006	—·002	+·009	—·073	—·035	+·001	—·019	—·038	—·093	+·008	—·026	—·028
East Coast and Carnatic	1	+·012	+·031	+·019	—·003	—·064	—·069	+·026	—·030	+·030	+·011	+·035	—·004	0
Arakan and Pegu	1	+·004	—·022	+·038	—·021	—·017	—·009	+·002	—·012	—·014	—·014	+·045	—·057	—·006
Bay Islands	1	—·032	—·041	—·037	—·071	—·071	—·057	—·042	—·043	—·035	—·047	—·044	—·038	—·047
Extra-Tropical India	12	+·024	+·035	—·006	+·041	—·029	—·067	—·062	+·011	—·037	—·045	—·011	—·041	—·016
Tropical India	10-11	—·009	+·015	—·004	+·020	—·073	—·041	—·009	—·016	—·037	—·056	—·008	—·048	—·022
Whole India	22-23	+·008	+·025	—·005	+·031	—·050	—·055	—·037	—·002	—·037	—·051	—·010	—·044	—·019

TABLE 80.—*Geographical Summary of the relative humidity departure data of Table A in the Monthly Weather Reviews of 1907.*

METEOROLOGICAL AREA.	Number of stations.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
North-West Himalayas	4	+2	+9	+11	+9	0	—8	—12	+2	—3	—8	—5	—10	—1
Sikkim Himalayas and Nepal	2	—5	+5	+6	+8	—2	—2	0	—2	—1	—3	+1	—8	0
Punjab Plains	1	+4	+17	+10	+18	0	0	—14	+2	—9	—7	—5	—9	+1
Gangetic Plain	2	—1	+12	+11	+13	—4	—14	—19	—1	—15	—19	—12	—12	—5
Western Rajputana	1	—2	+30	+18	+18	+5	—1	—8	+7	—4	—5	+4	—11	+4
Eastern Rajputana and Central India	1	—8	+12	—2	+9	—7	—15	—19	+4	—16	—11	—12	—16	—7
Lower Bengal	1	—2	+1	+1	—1	—6	—1	—2	—2	—4	—8	—7	—4	—3
Central Provinces (South) and Berar	3-4	—4	+9	+1	+15	—7	—6	—11	+3	—10	—15	—10	—9	—4
Konkan	1	0	0	—2	—5	—3	—2	0	0	—4	0	—4	—9	—2
Deccan, Hyderabad and Mysore	3	+1	0	+1	+7	—5	0	—1	+2	—6	—12	—2	—4	—2
East Coast and Carnatic	1	+1	+2	+1	+1	—7	—7	0	—7	—2	0	+4	—1	—1
Arakan and Pegu	1	0	—3	+2	—2	+1	—3	—4	—1	—4	—1	—2	—6	—2
Bay Islands	1	—3	—1	+2	—5	—1	—6	—2	—4	—5	—2	+3	—3	—2
Extra-Tropical India	12	—1	+11	+9	+10	—2	—7	—11	+1	—7	—9	—5	—10	—2
Tropical India	10-11	—2	+3	+1	+6	—5	—4	—5	0	—6	—9	—4	—6	—3
Whole India	22-23	—1	+7	+5	+8	—3	—5	—8	0	—6	—9	—4	—8	—2

TABLE 81.—*Departure of the mean monthly and annual aqueous vapour pressure from the normal in the fourteen chief political divisions of India in 1907.*

Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
	"	"	"	"	"	"	"	"	"	"	"	"	"
Burma	+·040	+·009	+·007	—·029	—·019	—·001	+·012	+·007	+·003	—·002	—·026	+·004	+·005
Eastern Bengal and Assam	+·039	+·007	—·028	—·051	—·031	—·024	—·008	0	+·011	—·019	—·019	—·017	—·014
Bengal	+·025	+·032	+·004	—·044	—·072	—·029	+·018	—·001	—·016	—·044	—·043	—·038	—·017
United Provinces	+·040	+·039	+·023	+·084	—·057	—·117	—·066	+·014	—·127	—·106	—·070	—·075	—·035
Punjab	+·054	+·039	+·004	+·082	—·046	—·093	—·147	+·034	—·074	—·033	—·024	—·057	—·022
North-West Frontier Province	+·047	+·024	—·022	+·031	—·036	—·096	—·128	—·035	—·013	—·013	+·006	—·044	—·026
Sind	+·070	+·035	—·004	+·027	—·125	+·012	+·036	+·098	+·008	+·024	+·014	—·038	+·013
Rajputana	+·027	+·057	+·014	+·083	—·005	—·062	—·026	+·053	—·064	+·004	+·009	—·057	+·006
Bombay	+·035	+·044	+·009	+·005	—·072	—·010	—·002	+·006	—·033	—·027	—·039	—·069	—·013
Central India	+·006	+·038	+·019	+·064	—·108	—·063	—·027	—·005	—·101	—·078	—·033	—·078	—·031
Central Provinces	—·005	+·077	+·005	+·061	—·071	—·068	—·014	—·039	—·087	—·111	—·066	—·083	—·033
Hyderabad	+·005	+·045	+·062	+·020	—·057	—·047	—·003	—·034	—·058	—·112	+·012	—·039	—·017
Mysore	+·017	+·042	—·020	—·014	—·004	+·003	+·013	—·007	—·001	—·017	+·042	+·008	+·005
Madras	+·020	+·026	+·009	—·001	+·016	—·015	+·014	—·032	—·012	—·023	+·017	—·012	+·001
Mean of India when the size of the above areas is taken into account.	+·029	+·037	+·008	+·022	—·046	—·043	—·020	+·002	—·045	—·042	—·017	—·044	—·013

TABLE 82.—*Departure of the mean monthly and annual relative humidity from the normal in the fourteen chief political divisions of India in 1907.*

Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
Burma	+2	+2	+3	0	0	+1	+1	+1	+1	+2	+1	—1	+1
Eastern Bengal and Assam	0	0	+3	+2	—1	0	+1	—3	—1	—3	—2	—4	—1
Bengal	+2	+7	+7	+3	—3	—2	0	0	—2	—5	—5	—3	0
United Provinces	+4	+11	+12	+15	—3	—16	—14	—1	—15	—16	—13	—11	—4
Punjab	+4	+9	+11	+17	—1	—6	—16	+3	—11	—9	—8	—9	—1
North-West Frontier Province	+9	+9	+7	+11	—1	—2	—10	—2	—3	—8	—3	—8	0
Sind	+6	+9	0	+6	—9	+3	—2	+3	+3	+2	0	—1	+2
Rajputana	—2	+11	+7	+12	0	—7	—12	+3	—4	0	+3	—5	+1
Bombay	+3	+6	+3	+5	—5	—1	—1	+3	—3	—7	—3	—3	—1
Central India	+1	+10	+7	+13	—6	—11	—11	+3	—11	—13	—7	—10	—3
Central Provinces	+1	+12	+3	+16	—4	—7	—5	+1	—10	—16	—13	—10	—3
Hyderabad	—1	+6	+3	+11	—6	—4	0	0	—9	—16	—5	—6	—2
Mysore	+5	+7	—2	+2	—1	0	+1	+3	—2	—5	+5	+1	+1
Madras	+3	+3	0	+3	+1	0	+1	—2	—2	—3	+1	—1	0
Mean of India when the size of the above areas is taken into account.	+2	+7	+5	+8	—2	—4	—5	+1	—5	—7	—4	—6	—1

I.—The cold weather period.

The air was considerably damper than usual throughout the period. This characteristic was on the whole more marked in northern India than in the Peninsula, and dampness was almost as great in January, a month of defective precipitation, as in February which was very rainy.

TABLE 83.

Division.	Departure of mean 8 hrs. vapour pressure from normal.			Departure of mean 8 hrs. relative humidity from normal.		
	January.	February.	Period, January and February.	January.	February.	Period, January and February.
	"	"	"			
Burma	+·040	+·009	+·025	+2	+2	+2
Eastern Bengal and Assam.	+·039	+·007	+·023	0	0	0
Bengal	+·025	+·032	+·029	+2	+7	+5
United Provinces	+·040	+·039	+·040	+4	+11	+8
Punjab	+·054	+·039	+·047	+4	+9	+7
North-West Frontier Province.	+·047	+·024	+·036	+9	+9	+9
Sind	+·070	+·035	+·053	+6	+9	+8
Rajputana	+·027	+·057	+·042	−2	+11	+5
Bombay	+·035	+·044	+·040	+3	+6	+5
Central India	+·006	+·038	+·022	+1	+10	+6
Central Provinces	−·005	+·077	+·036	+1	+12	+7
Hyderabad	+·005	+·045	+·025	−1	+6	+3
Mysore	+·017	+·042	+·030	+5	+7	+6
Madras	+·020	+·026	+·023	+2	+2	+2

In the Himalayan region, Baluchistan and southern Persia the conditions were similar in their general character to those in the plains of India.

TABLE 84.

Station.	Departure of mean 8 hrs. vapour pressure from normal.			Departure of mean 8 hrs. relative humidity from normal.		
	January.	February.	Period, January and February.	January.	February.	Period, January and February.
	"	"	"			
Bushire	+·006	+·004	+·005	+2	+9	+6
Muscat	+·061	+·010	+·036	+5	+3	+4
Chaman	+·030	+·019	+·025	+1	+14	+8
Quetta	−·011	+·012	+·001	−11	+9	−1
Murree	+·010	+·008	+·009	−8	+10	+1
Gilgit	−·010	+·012	+·001	−15	+4	−6
Srinagar	+·030	+·011	+·016	−6	−3	−5
Simla	+·017	+·010	+·014	−4	+11	+4
Leh	+·025	+·022	+·024	+17	+23	+20
Chakrata	+·027	+·024	+·026	−3	+15	+6
Darjeeling	+·013	+·008	+·011	−8	+8	−3

It is difficult to account for the high absolute humidity of January. The preceding data show that it was due to actions operating over a larger area than that of India, and also through a great depth of the atmosphere.

II.—The hot weather period.

(*a*) Humidity, both absolute and relative, was above the normal over the greater part of the country in March and April, while the weather was generally more rainy than usual. Humidity was in defect in May, when less rain than usual fell throughout India except in Burma and Rajputana.

The abnormal features of the hygrometric conditions of these months were thus parallel with those of rainfall over a large part of the country.

TABLE 85.

Division.	Departure of mean 8 hrs. vapour pressure from normal.				Departure of mean 8 hrs. relative humidity from normal.			
	March.	April.	May.	Period, March to May.	March.	April.	May.	Period, March to May.
	"	"	"	"				
Burma	+·007	−·029	−·019	−·014	+3	0	0	+1
Eastern Bengal and Assam	−·028	−·051	−·031	−·037	+3	+2	−1	+1
Bengal	+·004	−·044	−·072	−·037	+7	+3	−3	+2
United Provinces	+·023	+·064	−·057	+·017	+12	+15	−3	+8
Punjab	+·004	+·062	−·046	+·013	+11	+17	−1	+9
North-West Frontier Province	−·022	+·031	−·056	−·009	+7	+11	−1	+6
Sind	−·004	+·027	−·125	−·034	0	+6	−5	−1
Rajputana	+·014	+·188	−·005	+·031	+7	+12	0	+6
Bombay	+·009	+·005	−·072	−·019	+3	+5	−5	+1
Central India	+·019	+·064	−·108	−·008	+7	+12	−6	+5
Central Provinces	+·005	+·061	−·071	−·002	+3	+16	−4	+5
Hyderabad	+·023	+·020	−·057	+·008	+8	+11	−6	+4
Mysore	−·020	−·014	−·004	−·013	−2	+2	−1	0
Madras	+·009	−·001	+·016	+·008	0	+3	−1	+1

(*b*) In the western Himalayas the air, on the mean of the period, contained less aqueous vapour than usual, although owing to the low temperature the percentage of saturation was above normal.

TABLE 86.

Station.	Departure of mean 8 hrs. vapour pressure from normal.				Departure of mean 8 hrs. relative humidity from normal.			
	March.	April.	May.	Period, March to May.	March.	April.	May.	Period, March to May.
	"	"	"	"				
Murree	—·011	+·037	—·011	+·005	+12	+16	+1	+10
Gilgit	—·043	—·015	—·015	—·024	—7	—6	+4	—3
Srinagar	—·036	—·005	—·029	—·023	—3	+2	+4	+1
Simla	—·011	+·020	—·032	—·008	+9	+12	—3	+6
Leh	—·003	+·015	—·014	—·001	+14	+5	—4	+5
Chakrata	+·011	+·093	+·093	+·066	+23	+27	+20	+23
Darjeeling	—·018	—·012	—·012	—·016	+3	+3	—2	+1

(*c*) In Baluchistan and Persia the hygrometric conditions varied rather irregularly from the normal, an indication that they were determined chiefly by local actions.

TABLE 87.

Station.	Departure of mean 8 hrs. vapour pressure from normal.				Departure of mean 8 hrs. relative humidity from normal.			
	March.	April.	May.	Period, March to May.	March.	April.	May.	Period, March to May.
	"	"	"	"				
Quetta	—·044	—·011	—·106	—·054	—10	+2	—12	—7
Chaman	—·038	—·019	+·017	—·013	—3	—4	+10	+1
Jask	—·004	—·057	—·097	—·053	—5	+1	—6	—3
Bushire	—·004	+·049	+·105	+·050	+7	+13	+6	+9
Ispahan	—·047	—·067	—·085	—·073	—9	—6	+1	—4
Tehran	+·028	+·108	+·065	+·067	+21	+32	+28	+27

III.—The south-west monsoon period.

As is ordinarily the case the abnormalities of the humidity conditions during this period were related directly to the anomalies of the rainfall distribution: thus humidity, relative and absolute, agreed closely with the normal in Burma, north-east India, Sind, Bombay and the south of the Peninsula—areas of small rainfall departures; and was in considerable defect over the region of scanty rainfall which included the greater part of northwestern and central India. The region of greatest dryness of the air was on the whole defined by the boundaries of the United Provinces, the Punjab and Central India, and coincided with that of the maximum deficiency of rainfall.

TABLE 88.

Division.	Departure of mean 8 hrs. vapour pressure from normal.					Departure of mean 8 hrs. relative humidity from normal.				
	June.	July.	August.	September.	Period, June to September.	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"					
Burma	—·001	+·012	+·007	+·009	+·005	+1	+1	+1	+1	+1
Eastern Bengal and Assam	—·024	—·008	0	—·011	—·011	0	+1	—3	—1	—1
Bengal	—·029	+·018	—·001	—·016	—·007	—2	0	0	—2	—1
United Provinces	—·117	—·066	+·014	—·127	—·074	—16	—14	—1	—15	—12
Punjab	—·093	—·147	+·034	—·074	—·070	—6	—16	+3	—11	—8
North-West Frontier Province	—·096	—·128	—·035	—·013	—·068	—2	—10	—2	—5	—5
Sind	+·012	+·036	—·001	+·008	+·014	+3	—2	+3	+3	+2
Rajputana	—·062	—·026	+·053	—·064	—·025	—7	—12	+3	—4	—4
Bombay	—·010	—·002	+·006	—·033	—·010	—1	—1	+3	—3	—1
Central India	—·063	—·027	—·005	—·101	—·049	—11	—11	+3	—11	—8
Central Provinces	—·068	—·014	—·030	—·087	+·050	—7	—5	+1	—10	—5
Hyderabad	—·047	—·003	—·034	—·058	—·036	—4	0	0	—9	—3
Mysore	+·003	+·015	—·007	—·001	+·003	0	+1	+3	—2	+1
Madras	—·015	+·014	—·032	—·013	—·011	0	+1	—2	—2	—1

(*a*) The air was as dry in Baluchistan and at the hill stations in the western Himalayas as in the plains of upper India.

TABLE 89.

Station.	Departure of mean 8 hrs. vapour pressure from normal.					Departure of mean 8 hrs. relative humidity from normal.				
	June.	July.	August.	September.	Period, June to September.	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"					
Chaman	—·057	+·130?	+·254?	+·104?	+·108?	+2	+18?	+36?	+23?	+20?
Quetta	—·135	—·048	—·011	—·073	—·067	—6	—5	—4	—12	—7
Murree	—·073	—·118	+·008	+·011	—·043	—7	—21	0	—7	—9
Gilgit	—·020	—·099	—·062	—·061	—·061	+	—7	—4	—14	—4
Srinagar	—·107	—·108	—·046	—·047	—·077	+1	—6	—6	—5	—4
Simla	—·095	—·104	—·006	+·007	—·050	—15	—20	0	+6	—7
Leh	—·037	—·037	—·002	—·012	—·022	—3	—4	—2	—3	—4
Chakrata	—·067	—·090	+·010	+·011	—·034	—14	—20	+1	—1	—9

(*b*) Further west in Persia the air was unusually damp.

TABLE 90.

Station.	DEPARTURE OF MEAN 8 HRS. VAPOUR PRESSURE FROM NORMAL.					DEPARTURE OF MEAN 8 HRS. RELATIVE HUMIDITY FROM NORMAL.				
	June.	July.	August.	September.	Period, June to September.	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"					
Bushire	+·187	+·174	—·111	—·030	+·055	+17	+15	—1	+4	+9
Tehran	+·177	+·223	+·232	+·033	+·166	+29	+26	+35	+17	+27
Ispahan	—·003	+·147	+·158	+·030	+·096	+6	+8	+17	+15	+12
Jask	—·043	+·012	+·020	+·035	+·008	—2	+1	0	+2	0

IV.—The retreating south-west monsoon period.

The rains were very weak over the greater part of the country and accordingly the humidity, both relative and absolute, was low in most places. The dryness was on the whole most marked in the United Provinces and the Central Provinces, areas where the monsoon rains had terminated much before their normal date.

TABLE 91.

Division.	DEPARTURE OF MEAN 8 HRS. VAPOUR PRESSURE FROM NORMAL.				DEPARTURE OF MEAN 8 HRS. RELATIVE HUMIDITY FROM NORMAL.			
	October.	November.	December.	Period, October to December.	October.	November.	December.	Period, October to December.
	"	"	"	"				
Burma	—·002	+·026	+·004	+·009	+2	+1	—1	+1
Eastern Bengal and Assam	—·019	—·019	—·017	—·018	—3	—2	—4	—3
Bengal	—·044	—·043	—·038	—·042	—5	—5	—3	—4
United Provinces	—·106	—·079	—·075	—·084	—16	—13	—11	—13
Punjab	—·033	—·024	—·057	—·038	—9	—8	—9	—9
North-West Frontier Province	—·012	+·006	—·044	—·017	—3	—3	—8	—6
Sind	+·024	+·014	—·038	0	+2	0	—1	0
Rajputana	+·004	+·009	—·057	—·015	0	+3	—5	—1
Bombay	—·027	—·039	—·069	—·045	—7	—8	—8	—8
Central India	—·078	—·033	—·078	—·063	—13	—	—10	—10
Central Provinces	—·111	—·066	—·068	—·087	—16	—13	—10	—13
Hyderabad	—·112	+·012	—·039	—·046	—16	—5	—6	—9
Mysore	—·017	+·042	+·008	+·011	—3	+5	+1	0
Madras	—·023	+·017	—·012	—·006	—3	+1	—1	—1

Similar conditions prevailed at the level of the Himalayan stations as well as in the plateau area to the west of upper India.

TABLE 92.

Station.	Departure of mean 8 hrs. vapour pressure from normal.				Departure of mean 8 hrs. relative humidity from normal.			
	October.	November.	December.	Period, October to December.	October.	November.	December.	Period, October to December.
	"	"	"	"				
Baghdad	—·034	—·016	—·042	—·031	—1	+2	—8	—2
Bushire	—·036	—·037	—·007	—·027	—1	+5	+7	+4
Tehran	+·025	+·007	+·006	+·013	+27	+13	+13	+18
Ispahan	+·040	—·030	—·030	—·007	+15	—2	—4	+3
Jask	—·072	—·070	—·038	—·060	—6	—7	—4	—6
Chaman	+·040	—·040	—·040	—·013	+16	+1	—7	+3
Quetta	0	—·007	—·024	—·010	—2	+1	+2	0
Murree	—·009	+·033	+·014	+·013	—6	+4	—4	—2
Gilgit	0	—·037	—·035	—·024	—2	—16	—13	—10
Srinagar	—·006	—·013	—·054	—·024	—7	—8	—9	—8
Simla	—·026	—·004	—·036	—·022	—9	—2	—14	—8
Leh	—·011	—·015	—·014	—·013	—6	—14	—18	—13
Chakrata	—·060	+·002	—·029	—·029	—14	—5	—12	—10
Darjeeling	—·014	+·010	—·023	—·009	—8	—2	—16	—9

The year:—

(*a*) On the average of the whole year the 8 hrs. relative humidity was in slight defect, a consequence mainly of the deficiency in the amount of aqueous vapour, the pressure of which was ·013″ below normal.

(*b*) In point of absolute humidity the driest months of the year were May, June, September, October and December, and the dampest January, February, and April. These departures from the normal were conditioned almost solely by the character of the precipitation except in the case of January, in which month the rainfall, as averaged over India, was 23 per cent. in defect.

The statement below illustrates the relationship of the abnormalities of humidity with those of rainfall and temperature:—

TABLE 93.

	Departure from normal of the Indian area.												
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Vapour pressure at 8 hrs.	+·029	+·037	+·008	+·022	—·046	—·043	—·020	+·002	—·045	—·042	—·017	—·044	—·013
Relative humidity at 8 hrs.	+2	+7	+5	+3	—2	—4	—5	+1	—5	—7	—4	—6	—1
Temperature	+1·9	—0·7	—2·4	—3·4	—1·6	+0·2	+2·0	—0·6	+0·5	+1·2	+1·6	—0·7	—0·2
Rainfall	—23	+179	+86	+90	—18	—10	—17	+22	—38	—49	—22	0	—7

(*c*) The largest defect of humidity, as of the rainfall, occurred in the United Provinces, Central India and the Central Provinces.

* Over the greater part of the country the month's rainfall was short of the normal.

Cloud.

Normal values of the mean monthly and annual amount of cloud at second class stations have been obtained from the whole of the available data up to the end of the year 1899 and are given in Tables XXXV and XXXVI of the Indian Meteorological Memoirs, Vol. XVII. These means are the arithmetical averages of the cloud amounts as registered at 10 and 16 hrs., and hence represent the mean amount during the day period rather than of the whole 24 hours.

Departure data of this element of meteorological observation for the year 1907 are given in Tables 94, 95 and 96. Table 95 gives the mean departure data for the thirteen meteorological areas adopted in the geographical summaries of the meteorological data in the Annual Reports previous to 1891, and in the Geographical Summaries published in the Annual Summaries from 1891 onwards; and Table 96 gives the departures of the 8 hrs. cloud for fourteen chief political divisions of India.

TABLE 94.—*Departure of the monthly and annual mean cloud proportion of 1907 from the average of past years.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma	Rangoon	+0·1	−1·0	+2·1	+0·6	+0·7	−0·6	−0·7	+0·2	−0·5	+0·3	+1·4	+0·6	+0·3
Bengal	Calcutta	−0·4	+0·6	+1·6	+2·7	−0·6	−0·1	0	−0·3	−1·2	−2·2	−1·7	+0·3	−0·1
United Provinces of Agra and Oudh.	Allahabad	−0·3	+1·3	+0·3	+2·9	+0·1	−1·1	−1·2	−0·3	−2·7	−1·6	−0·4	−1·3	−0·3
	Dehra Dun	−0·4	+2·1	+0·8	+2·3	−0·3	−1·2	−2·0	−0·1	−2·4	−0·9	−0·8	−1·7	−0·4
Punjab	Lahore	−0·6	+1·7	+0·7	+0·8	−0·6	−1·5	−2·4	+0·1	+1·6	+0·1	−0·8	−1·0	−0·4
Rajputana	Jaipur	−0·6	+2·4	−0·5	+2·2	−0·9	−0·4	−1·9	+0·3	+2·4	−1·3	−0·9	−1·8	−0·5
Bombay	Bombay	−0·3	−0·3	−0·4	+2·6	−1·6	−0·4	−0·1	+0·7	+1·2	−0·9	+1·2	−1·5	−0·2
Central Provinces	Buldana	−0·9	−1·3	−1·2	+2·9	−0·9	+0·6	−1·3	+1·1	+1·9	0	+1·1	−1·5	−0·3
	Nagpur	−0·8	+0·2	−1·1	+1·1	−2·1	−1·1	−1·6	−0·4	−2·9	−1·4	0	−1·9	−1·0
Hyderabad	Hyderabad	−0·2	−0·5	+0·7	+1·1	−0·8	+0·7	−0·3	+0·4	−0·6	−0·2	+0·8	+0·4	+0·1
Mysore	Mysore	0	−0·7	−0·2	+0·7	−0·3	+0·5	−0·1	+0·8	0	−0·1	+0·5	−0·7	0
Madras	Madras	−1·6	−0·7	+0·4	+0·1	−0·7	−0·3	−1·1	−0·4	−1·1	0	+0·5	−1·4	−0·5
Station in the Bay	Port Blair	+0·7	+0·3	+0·1	−0·9	+1·1	+0·3	+0·8	+0·9	0	+1·5	+2·2	+1·0	+0·8
Kashmir	Srinagar	−0·7	+1·5	+1·5	+1·1	+0·8	+1·4	+0·1	+0·9	−1·7	+1·0	+0·1	−2·4	+0·3
	Leh	+0·4	+0·3	+0·4	−0·4	−0·3	−0·1	−0·7	−0·8	−2·4	+0·4	−0·1	−2·3	−0·5
Baluchistan	Quetta	−1·8	+2·2	−0·5	+0·1	−0·8	+1·0	−0·5	+0·5	−0·2	−0·3	−0·5	−1·7	−0·2
Hill Stations excluding Kashmir and Baluchistan.	Simla	0	+1·9	+1·2	+1·5	−0·5	−2·6	−2·4	+0·1	−1·8	−0·2	−0·9	−1·6	−0·4
	Chakrata	0	+0·8	+0·8	+1·9	−0·3	−0·9	−2·3	+0·8	−1·8	−1·1	−0·8	−1·1	−0·3
	Katmandu	−1·6	+1·8	+0·5	+0·8	−1·0	−0·5	+0·1	−0·5	−1·1	−2·3	−0·3	−2·2	−0·5
	Darjeeling	+0·4	+1·2	+1·5	+1·5	+0·6	−0·5	−0·5	−1·2	−1·1	−0·2	+1·5	−1·1	+0·2
	Pachmarhi	−1·2	+0·7	−1·2	+1·8	−2·1	−3·3	−1·7	+0·3	−3·9	−2·8	−0·8	−2·1	−1·4
	Mount Abu	−1·2	+2·6	−0·9	+2·0	−0·9	0	−1·6	+1·2	−1·8	−1·6	−0·4	−1·6	−0·4
	Cherrapunji	−0·7	+1·1	−0·5	+2·2	−1·0	−0·9	−1·5	+0·3	−2·7	−0·3	+0·6	−1·7	−0·4
Extra India	Zanzibar	+1·5	+2·0	−0·6	+1·5	−0·6	−0·8	−0·5	+0·3	+0·5	+0·2	−0·7	−0·2	+0·2
	Seychelles	+0·1	−0·4	−0·7	+1·5	0	−2·0	+1·1	−0·9	−0·3	−0·9	−1·6	−0·4	−0·4
	Mauritius	−0·2	+0·1	+0·2	+1·2	+0·4	+1·7	+0·7	+0·5	+0·2	+0·8	+0·5	+0·7	+0·6

TABLE 95.—*Geographical summary of the cloud departure data of Table A in the Monthly Weather Reviews of 1907.*

Meteorological Area.	Number of stations.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
North-West Himalayas	4	−0·1	+1·1	+1·0	+1·0	−0·1	−0·6	−1·3	+0·3	−1·3	0	−0·4	−1·9	−0·2
Sikkim Himalayas and Nepal	2	−0·6	+1·5	+1·0	+1·2	−0·2	−0·5	−0·2	−0·3	−1·1	−1·3	+0·6	−1·7	−0·2
Punjab Plains	1	−0·6	+1·7	+0·7	+0·8	−0·6	−1·5	−2·4	+0·1	−1·6	+0·1	−0·8	−1·0	−0·4
Gangetic Plain	2	−0·4	+2·0	+0·8	+2·6	−0·1	−1·2	−1·6	−0·2	−2·6	−1·3	−0·6	−1·5	−0·3
Western Rajputana	1	−1·2	+2·6	−0·9	+2·0	−0·9	0	−1·6	+1·2	−1·8	−1·6	−0·4	−1·6	−0·4
Eastern Rajputana and Central India.	1	−0·6	+2·4	−0·5	+2·2	−0·9	−0·4	−1·9	+0·3	−2·4	−1·3	−0·9	−1·8	−0·5
Lower Bengal	1	−0·4	+0·6	+1·6	+2·7	−0·6	−0·1	0	−0·3	−1·2	−2·2	−1·7	+0·3	−0·1
Central Provinces (South) and Berar.	4	−0·9	+0·2	−1·0	+1·9	−1·5	−1·2	−1·5	+0·3	−2·9	−1·1	+0·2	−1·8	−0·8
Konkan	1	−0·3	−0·8	−0·4	+2·6	−1·6	−0·4	−0·1	+0·7	−1·2	−0·9	+1·2	−1·5	−0·2
Deccan, Hyderabad and Mysore	2	−0·1	−0·6	+0·2	+0·9	−0·6	+0·6	−0·2	+0·6	−0·3	−0·2	+0·7	−0·2	+0·1
East Coast and Carnatic	1	−1·6	−0·7	+0·4	+0·1	−0·7	−0·3	−1·1	−0·4	−1·1	0	+0·5	−1·4	−0·5
Arakan and Pegu	1	+0·1	−1·0	+2·1	+0·6	+0·7	−0·6	−0·7	+0·2	−0·5	+0·3	+1·4	+0·6	+0·3
Bay Islands	1	+0·7	+0·3	+2·1	−0·9	+1·1	+0·3	+0·8	+0·9	0	+1·5	+2·2	+1·0	+0·8
Extra-tropical India	12	−0·4	+1·6	+0·7	+1·6	−0·3	−0·6	−1·2	0	−1·8	−0·8	−0·5	−1·5	−0·3
Tropical India	10	−0·5	−0·3	+0·1	+1·2	−0·3	−0·5	−0·5	+0·4	−1·5	−0·4	+0·8	−0·9	−0·
Whole India	22	−0·5	+0·7	+0·4	+1·4	−0·5	−0·5	−1·0	+0·2	−1·7	−0·6	+0·1	−1·2	−0·3

TABLE 96.—*Departure of the mean monthly and annual cloud amount from normal in the fourteen chief political divisions of India in 1907.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma	+0·4	−0·4	+0·5	+0·1	0	−0·6	−1·2	+0·3	+0·3	+0·9	−0·9	+0·3	0
Eastern Bengal and Assam	+1·4	+0·7	+0·3	+0·3	−1·3	−0·8	−0·5	−2·0	−0·3	+2·2	−1·2	−0·1	−0·5
Bengal	+0·4	+1·1	+0·7	+1·3	−1·3	−0·5	−0·4	−0·4	−0·7	−1·9	−0·9	+0·1	−0·2
United Provinces	−0·2	+1·5	+0·6	+1·7	−0·3	−2·5	−2·1	−0·7	−2·6	−0·9	−0·8	−1·3	−0·6
Punjab	−1·1	+1·4	+0·7	+1·0	−0·7	−1·8	−1·8	−0·3	−1·6	0	−0·9	−1·8	−0·5
North-West Frontier Province	−0·4	+1·7	+0·2	+1·6	−0·3	+0·6	−0·4	−0·1	−0·7	+0·2	−0·3	−1·0	+0·1
Sind	−1·4	+1·7	−0·4	+1·7	−0·7	+0·4	−1·1	+0·3	+0·2	+0·5	0	−1·5	0
Rajputana	−0·5	+2·0	−0·5	+0·8	−0·7	−1·0	−3·3	+0·2	−2·4	−0·3	−0·8	−1·9	−0·7
Bombay	+0·3	+0·5	−0·5	+1·5	−1·2	−0·3	−0·2	+0·6	−0·8	−1·0	+0·9	−0·8	−0·1
Central India	+1·1	+2·1	+1·0	+4·4	+0·2	+0·1	+0·9	+1·5	−0·7	−0·2	+0·2	−0·9	+0·8
Central Provinces	+0·1	+0·8	−0·9	+2·6	−1·2	−1·0	−0·6	+0·3	−2·5	−0·5	+0·3	−1·0	−0·3
Hyderabad	+0·1	−0·1	+0·4	+0·7	−2·1	+0·2	−0·4	−0·5	−2·2	−1·0	+1·1	+1·0	−0·2
Mysore	+0·1	−0·8	−0·1	+0·5	−1·7	−0·2	−0·1	+0·7	−0·9	−1·8	+1·0	0	−0·2
Madras	0	+0·1	+0·6	+0·6	−1·1	−0·1	−0·5	+0·4	−0·9	−0·4	+1·2	+0·1	0
Mean of India when the size of the above areas is taken into account.	+0·1	+0·8	+0·3	+1·3	−0·9	−0·6	−1·0	0	−1·2	−0·6	−0·2	−0·6	−0·2

I.—The cold weather period.

On the average of the period skies were more clouded than usual over the whole of the country with the exception of Burma and parts of the Peninsula. The excess of cloudiness was most marked in Eastern Bengal and Assam and Central India.

TABLE 97.

DIVISION.	DEPARTURE OF MEAN 8 HRS. CLOUD AMOUNT FROM NORMAL.		
	January.	February.	Period, January and February.
Burma	+0·4	−0·4	0
Eastern Bengal and Assam	+1·4	+0·7	+1·1
Bengal	+0·4	+1·1	+0·8
United Provinces	−0·2	+1·5	+0·7
Punjab	−1·1	+1·4	+0·2
North-West Frontier Province	−0·4	+1·7	+0·7
Sind	−1·4	+1·7	+0·2
Rajputana	−0·5	+2·0	+0·8
Bombay	+0·3	+0·5	+0·4
Central India	+1·1	+2·1	+1·6
Central Provinces	+0·1	+0·8	+0·5
Hyderabad	+0·1	−0·1	0
Mysore	+0·1	−0·3	−0·1
Madras	0	+0·1	+0·1

The abnormal features of the cloud distribution of the period were in general parallel with those of rainfall and humidity.

In Persia, Baluchistan and the Himalayas the cloud proportion exceeded that of an average winter, but in the Aravalis and Satpuras it fell short :—

TABLE 98.

STATION.	DEPARTURE OF MEAN 8 HRS. CLOUD AMOUNT FROM NORMAL.		
	January.	February.	Period, January and February.
Aden	−0·9	+0·6	−0·2
Baghdad	+1·4	+2·1	+1·8
Bushire	+0·7	...	...
Jask	+1·1	+3·8	+2·5
Kabul		+1·9	...
Chaman	−1·9	+1·3	−0·3
Quetta	−1·4	+2·6	+0·6
Cherat	−0·8	+0·2	−0·3
Murree	−0·2	+0·8	+0·3
Gilgit	+0·4	+2·1	+1·3
Srinagar	−1·7	+0·9	−0·4
Leh	+0·7	+2·0	+1·4
Simla	−0·5	+1·3	+0·4
Chakrata	−0·1	+0·8	+0·4
Darjeeling	−0·1	+1·3	+0·6
Mount Abu	−0·5	−1·6	−1·1
Pachmarhi	−0·7	+0·1	−0·3

II.—The hot weather period.

(*a*) In this period also there was a fairly close agreement between the abnormal features of the cloud distribution and those of rainfall and humidity. On the mean of the period there was more than the customary proportion of cloud in Burma, Central India and over the tract of country extending from Bengal to the valley of the Indus. The departures from the normal were, however, neither uniform nor marked except in the case of Central India where the amount of excess was nearly one-fifth of the total sky expanse.

TABLE 99.

DIVISION.	DEPARTURE OF MEAN 8 HRS. CLOUD AMOUNT FROM NORMAL.			
	March.	April.	May.	Period, March to May.
Burma	+0·5	+0·1	0	+0·2
Eastern Bengal and Assam	+0·3	+0·3	−1·8	−0·2
Bengal	+0·7	+1·	−1·3	+0·2
United Provinces	+0·6	+1·7	−0·3	+0·7
Punjab	+0·7	+1·0	−0·7	+0·3
North-West Frontier Province	+0·2	+1·6	−0·5	+0·5
Sind	−0·6	+1·2	−0·7	+0·2
Rajputana	−0·5	+0·8	−0·7	−0·1
Bombay	−0·5	+1·5	−1·2	−0·1
Central India	+1·0	+4·4	+0·2	+1·9
Central Provinces	−0·9	+2·6	+1·2	+0·2
Hyderabad	+0·4	+0·7	−2·1	−0·3
Mysore	−0·1	+0·5	−1·7	−0·4
Madras	+0·6	+0·6	−1·1	0

(*b*) Conditions were rather different in Persia and probably also in Afghanistan where the cloud proportion was high throughout the period instead of only in March and April. This is probably an indication that the winter conditions there terminated even later than in the Indian region. In Baluchistan and the mountainous region of the North-West Frontier Province on the other hand, cloud was below the average practically throughout the period.

TABLE 100.

Station.	DEPARTURE OF MEAN 8 HRS. CLOUD AMOUNT FROM NORMAL.			
	March.	April.	May.	Period, March to May.
Aden	0	+0·7	+1·2	+0·6
Baghdad	+1·4	+1·2	+1·6	+1·4
Bushire	+3·1	+0·7	+1·7	+1·8
Jask	+0·5	+2·0	+0·4	+1·0
Kabul	−0·1	+1·0	+0·7	+0·5
Chaman	−1·2	−0·5	+0·1	−0·5
Quetta	−0·5	+0·1	−0·5	−0·3
Cherat	−1·8	−0·8	−1·0	−1·2

(*c*) In the Himalayan region and the hill districts of Central India the state of the skies was the same as in the neighbouring plains.

TABLE 101.

Station.	DEPARTURE OF MEAN 8 HRS. CLOUD AMOUNT FROM NORMAL.			
	March.	April.	May.	Period, March to May.
Murree	−0·8	−0·4	−2·0	−1·1
Gilgit	+0·3	+2·1	+1·0	+1·1
Srinagar	+1·2	+0·8	−0·6	+0·5
Leh	+1·6	+0·2	+0·1	+0·6
Simla	+1·4	+0·9	−1·7	+0·2
Chakrata	+0·5	+0·8	−0·2	+0·4
Darjeeling	+1·9	+2·6	+0·1	+1·5
Mount Abu	−0·6	+1·9	−0·7	+0·2
Pachmarhi	−0·8	+2·2	−1·5	0

III.—The south-west monsoon period.

(*a*) Except in Central India the cloud proportion was low in all parts of the Indian region. The defect was greatest in the United Provinces, the Punjab, Rajputana and the Central Provinces, and was least in the Peninsula.

TABLE 102.

Division.	DEPARTURE OF MEAN 8 HRS. CLOUD AMOUNT FROM NORMAL.				
	June.	July.	August.	Sept.	Period, June to September.
Burma	−0·6	−1·2	+0·3	+0·3	−0·3
Eastern Bengal and Assam.	−0·3	−0·5	−2·0	−0·8	−0·9
Bengal	−0·5	−0·4	−0·4	−0·7	−0·5
United Provinces	−2·5	−2·1	−0·7	−2·6	−2·0
Punjab	−1·3	−1·8	−0·3	−1·6	−1·3
North-West Frontier Province.	+0·9	−0·4	−0·1	−0·7	−0·2
Sind	+0·4	−1·1	+0·3	+0·2	−0·1
Rajputana	−1·0	−3·3	+0·2	−2·4	−1·6
Bombay	−0·3	−0·7	+0·6	−0·2	−0·3
Central India	+0·1	+0·9	+1·5	−0·7	+0·5
Central Provinces	−1·0	−0·6	+0·3	−2·5	−1·0
Hyderabad	+0·2	−0·4	−0·5	−2·2	−0·7
Mysore	−0·2	−0·1	+0·7	−0·9	−0·1
Madras	+0·1	−0·5	+0·4	−0·9	−0·3

These departures were coincident with those of rainfall, the only exceptions being Sind, Bombay, Mysore, Madras and Central India: in the first four areas the cloud proportion was below the average in spite of the excess of rainfall; while in Central India the opposite case held. Further, the zone of maximum defect of cloud coincided roughly with the region of scantiest rainfall.

(*b*) Cloud was on the whole almost as much below normal in the hill districts of upper India and in the Satpuras as in the adjacent plains.

TABLE 103.

Station.	DEPARTURE OF MEAN 8 HRS. CLOUD AMOUNT FROM NORMAL.				
	June.	July.	August.	September.	Period, June to September.
Cherat	−0·8	−1·3	0	−1·8	−1·0
Murree	−1·0	−1·5	+0·5	−1·9	−1·0
Gilgit	+2·3	+0·3	−0·2	−2·3	0
Srinagar	0	−0·9	−0·3	−2·4	−0·9
Leh	+0·5	−0·4	+0·5	−2·1	−0·4
Simla	−2·8	−3·2	+0·6	+0·4	−1·3
Chakrata	−0·8	−0·1	+2·3	−1·5	+0·3
Darjeeling	+0·8	−3·2	−0·4	−0·2	0
Mount Abu	0	−1·7	+1·3	−0·5	−0·3
Pachmarhi	−1·7	−1·1	+0·8	−2·7	−1·2

(*c*) In Persia, Baluchistan and Afghanistan the quantity of cloud was either normal or in excess.

TABLE 104.

Station.	Departure of mean 8 hrs. cloud amount from normal.				
	June.	July.	August.	September.	Period, June to September.
Aden	+0·6	−0·8	+0·3	+0·4	+0·1
Baghdad	0	0	−0·1	+0·3	+0·1
Bushire	0	−1·0	...	...	...
Jask	+0·5	+2·9	+2·8	−0·4	+1·5
Kabul	+0·7	0	+0·3	+0·1	+0·3
Chaman	0	−0·5	−0·5	0	−0·3
Quetta	+1·1	−0·7	+3·0	−0·1	+0·8

The slight excess of cloud in these regions was probably associated with the causes of the abnormal disturbances which affected the extreme north of India during the greater part of the monsoon period.

IV.—The retreating south-west monsoon period.

(*a*) There was less cloud than usual throughout the country with the exception of Burma, Hyderabad and Madras, where the cloud amount slightly exceeded that of an average autumn. The cloud proportion was especially low in Rajputana, the United Provinces, Eastern Bengal and Assam. Since the rainfall of the period was below normal all over the Indian region excepting Burma, the parallelism between the abnormalities of this element and those of cloud shown during the previous three seasons was extended to this period.

TABLE 105.

Division.	Departure of mean 8 hrs. cloud amount from normal.			
	October.	November.	December.	Period, October to December.
Burma	+0·9	−0·9	+0·3	+0·1
Eastern Bengal and Assam	−2·2	−1·2	−0·1	−1·2
Bengal	−1·9	−0·9	+0·1	−0·9
United Provinces	−0·9	−0·8	−1·3	−1·0
Punjab	0	−0·9	−1·8	−0·9
North-West Frontier Province	+0·2	−0·3	−1·0	−0·4
Sind	+0·5	0	−1·5	−0·3
Rajputana	−0·8	−0·8	−1·9	−1·2
Bombay	−1·0	+0·9	−0·8	−0·3
Central India	−0·2	+0·2	−0·9	−0·3
Central Provinces	−0·5	+0·3	−1·0	−0·4
Hyderabad	−1·0	+1·1	+1·0	+0·4
Mysore	−1·8	+1·0	0	−0·3
Madras	−0·4	+1·2	+0·1	+0·3

(*b*) The cloud proportion was everywhere low in the mountain zone bordering upper India, but this condition did not extend westwards beyond Baluchistan.

TABLE 106.

Station.	Departure of mean 8 hrs. cloud amount from normal.			
	October.	November.	December.	Period, October to December.
Aden	+1·4	−0·7	−0·2	+0·2
Baghdad	+1·4	+1·7	+0·3	+1·1
Bushire	+0·3	−0·4	+1·0	+0·5
Jask	+0·4	+1·1	+0·5	+0·7
Kabul	+1·3	+0·6	−0·3	+0·4
Chaman	0	−0·9	−1·5	−0·8
Quetta	−0·4	−1·0	−1·5	−1·0
Cherat	0	−0·5	−2·0	−0·8
Murree	+0·4	−1·1	−2·3	−1·0
Gilgit	+1·4	−0·4	−4·0	−1·0
Srinagar	+0·5	−1·1	−4·0	−1·5
Leh	+0·4	−0·5	−2·6	−0·9
Simla	−0·6	−0·4	−2·4	−1·1
Chakrata	−0·4	−0·6	−1·8	−0·9
Darjeeling	−1·6	+0·1	−1·2	−0·9
Mount Abu	−1·0	−1·4	−1·5	−1·3
Pachmarhi	−1·1	+2·2	−1·8	−0·2

The year.—On the mean of the whole year and for India as a whole the amount of cloud at 8 hrs. was well below the general average of past years, the mean departure as derived from the observations of 180 stations being—0·2, or about 5 per cent. of the general normal cloudiness of the country, *viz.*, 4·0.

In one month the cloud proportion was equal to the normal, in four months in excess, and in the remaining seven months in defect. The excess was on the whole most conspicuous in April, and the defect in September.

In nine of the twelve months the departures from normal of the cloud proportion were of the same sign as those of rainfall, and in eleven months of the same sign as those of humidity.

The statement below shows the departure of the mean amount of cloud in the Indian area annually during the period 1875-1907 :—

TABLE 107.

Year.	Amount of Departure.
1875	0
1876	—0·2
1877	+0·3
1878	+0·1
1879	—0·1
1880	—0·1
1881	—0·1
1882	0
1883	+0·1
1884	—0·1
1885	+0·2
1886	+0·2
1887	—0·1
1888	—0·2
1889	+0·1
1890	+0·2
1891	+0·1
1892	+0·1
1893	+0·5
1894	+0·5
1895	+0·1
1896	—0·2
1897	0
1898	—0·2
1899	—0·3
1900	+0·2
1901	+0·1
1902	—0·1
1903	—0·1
1904	—0·
1905	—0·2
1906	0
1907	—0·3

SNOWFALL.

(A).—The cold weather of 1906-07, and the succeeding hot weather.

(1) The winter commenced much later than usual in Baluchistan, and terminated somewhat after the normal date. The precipitation there was well above the average from February to April and in decided defect in December, January and May.

(2) The precipitation was unusually light in Afghanistan as represented by Kabul, during January, and in marked excess during the three succeeding months. There are no data available for May, but the prevalence of abnormally low temperature in upper India and Baluchistan during the first two weeks was suggestive of the occurrence of snowfall in the Afghan region. Similar weather apparently prevailed in the mountainous region of the North-West Frontier Province.

(3) The precipitation of the season was above normal in Kashmir, the excess occurring mainly in February, March and April. There were a few falls of snow in May, but they were confined to the higher ranges. In Gilgit the conditions were slightly different, the weather having been dry during the first three months and somewhat more unsettled than usual in April and May.

(4) In the Punjab hills moderate to heavy snow fell during the period February to April, and light to moderate snow in January and May. The fall was exceptionally heavy in Kulu, where snow is reported to have fallen to as low a level as 3,500 feet in March. In the Chandra Valley snow lay right down to the stream on both banks at the end of May. The accumulations at the end of April were greater than usual in the Simla and Kulu hills: even as late as the 24th May the thickness of snow on the mountains visible from Simla was greater than on the 30th April 1906, although the snow did not descend so far down the lower slopes.

(5) In the Kumaon hills the snowfall was light in January and May and unusually heavy in the intervening period. The snowline on the 18th of May was at a much lower level than on the same date of the previous year. The accumulations at the end of May were unusually great, and most of the passes remained closed. Large drifts of snow were lying unmelted down to 8,000 feet in the Kali Valley.

(6) The information for the Assam Himalayas was as usual very limited, but appeared to indicate that snowfall during the winter months was normal in Darrang, less than usual in the hills to the north of Lakhimpur, and excessive on the ranges to the north and east of Sadiya.

(7) The available information thus indicated :—

(*a*) that although the snowfall was generally light up to the end of January, it was excessive during the following three months, particularly in the Punjab and Kumaon hills;

(*b*) that the fall was apparently below normal in May;

(*c*) that at the end of May the snow covered area on the Punjab and Kumaon hills was larger than usual, while in the Afghan and Kashmir hills it was approximately normal;

(*d*) that the depth of snow on the peaks and the higher passes at the close of May was unusually great in some districts, but was normal or even below it in other places.

(B).—The south-west monsoon period, June to September.

In June no snow fell in the mountainous region to the west of the Indus. There were occasional snowstorms in Kashmir but the total fall was small in amount. Temperature there was lower than usual and the winter accumulations on the higher mountains remained very deep. Snow fell occasionally in the Simla and Chamba hills, in the former region down to 11,000 feet. The total fall measured 1 foot in depth on the Sach pass (elevation 14,400 feet). In Kulu there were one or two falls in the third week down to 13,000 or 12,000 feet. In Kumaon some light snowfall occurred, but it was confined to the higher ranges. On the 5th the snowline was at an elevation of 14,000 feet on the Indian side and at 15,000 or 16,000 feet on the Tibet side.

During July there was no snowfall in the Afghan mountains. Occasional falls occurred in Kashmir, but the total quantity was small. The winter accumulations on the higher ranges remained very deep. A few falls occurred in the Simla and Chamba hills, but their total amount was small. All the passes near Kilba were open. In Kangra there were some falls down to 13,000 feet. In Garhwal there was a considerable fall of snow on the higher ranges in the last week. The snowline was at a lower level than usual.

In August light snow fell on two occasions in the Simla hills down to about 11,000 feet. All the passes near Kilba remained open. In Kulu some falls occurred at elevations above 15,000 feet. In Almora occasional snowstorms occurred in some parts down to unusually low levels. The total fall of the month measured 19 feet in depth on the Nuwe pass. The accumulations in Almora at the end of the month were on the whole of about the usual depth.

In September snowstorms occurred over the mountain ranges of Lahoul, Spiti and Kulu on the last three days of the month, and were reported as unseasonable. On the hills near Kilba light snow fell on four days down to 11,000 feet. The accumulation at the end of the month on the passes, all of which were open to travellers, varied from 1 to 1½ feet. In Almora snowstorms were of occasional occurrence, chiefly during the second half of the month. The accumulations at the end of the month were nearly normal in depth.

(C).—The period October to December.—

(a) In October heavy snow fell in Afghanistan and Chitral about the 21st down to unusually low levels. The fall was approximately normal in Kashmir. In Almora the snowfall, although very unevenly distributed, was on the whole normal in quantity.

(b) During November there were a few local falls of snow in the Afghan mountains. In the Simla hills a feeble snowstorm occurred towards the close of the month at elevations above 11,000 feet. The accumulations on the passes near Kilba were not so deep as usual. In Almora there were a few falls, but they were light. The accumulations on the well known passes and peaks were half of the normal depth, and the snowline was very high.

(c) The snowfall of December was much lighter than usual and occurred almost entirely towards the close of the month. The winter conditions were thus late in setting in over the mountain zone to the north and west of upper India.

Rainfall.

The rainfall data of India are now issued annually in a separate volume entitled "Rainfall of India." The seventeenth volume that of 1907, contains the whole rainfall data of 2,677 stations, which are there classified under their respective administrative divisions according to the following scheme :—

Province.	Number of stations.
Burma	185
Eastern Bengal and Assam	232
Bengal	312
United Provinces of Agra and Oudh	278
Punjab	189
North-West Frontier Province	34
Bombay	289
Madras (including Pudukkottai, Travancore and Cochin)	487
Coorg	10
Central Provinces	170
Mysore	77
Baluchistan	61
Kashmir	87
Rajputana	179
Central India	115
Hyderabad (Deccan)	22
	2,677

The information includes monthly statements of—

(*a*) the actual rainfall, day by day, of all the rainfall stations ;

(*b*) the total rainfall of the month ;

(*c*) the number of rainy days during the month ;

(*d*) the average or normal rainfall of the month of all stations for which rainfall data of at least five years are available ;

(*e*) the average or normal number of rainy days of the month for all stations for which rainfall data of five years or upwards are available ;

(*f*) the accumulated rainfall (up to the date of each statement) throughout each of the seasons into which the year is divided. *

Symons' rain-gauges are now used at all rain-gauge stations, with the exception of those in Mysore. The time of measuring rainfall is 8 hrs. throughout India, and the amounts registered give the rainfall of the previous 24 hours, and hence generally of the previous civil day.

The five tables (Tables 108 to 112) give summaries of the rainfall data of the year. In the first two tables (Tables 108 and 109) the summaries are drawn up in the form that was used for many years in the Annual Reports issued by the Department. In the three succeeding tables (Tables 110, 111 and 112) the actual average rainfall data (derived from the returns of about 2,600 rain-gauge stations in India) are given in Table 110 for the 14 chief political provinces ; and in Tables 111 and 112 for the 34 sub-divisions, for the four periods into which the year has been divided. The four periods are :—

1st.—From January 1st to February 28th, which forms the period of the cold-weather rains of upper India.

2nd.—From March 1st to May 31st, which includes the hot season, when rain occurs mainly in the coast districts, and in Assam during thunderstorms.

3rd.—From June 1st to September 30th*, which forms the period of the south-west monsoon rains proper.

4th.—From October 1st* to December 31st, which includes the period of the so-called north-east monsoon rains of the Peninsula, more especially of the Coromandel coast districts.

* In Tables 109, 111 and 112, however, the 3rd and 4th periods are taken as extending from June 1st to October 31st and from November 1st to December 31st respectively.

TABLE 108.—*Geographical summary of rainfall in 1907.*

Meteorological Division.	Area square miles.	Number of stations.	Normal rainfall.	Actual rainfall.	Mean excess or defect.	Total excess square miles × 1 inch.	Total defect square miles × 1 inch.
			Inches	Inches.	Inches.		
I.—Punjab Plains	120,000	29	21·28	19·18	— 2·10	...	252,000
II.—United Provinces of Agra and Oudh	83,500	44	38·18	25·14	—13·04	...	1,088,840
III-A.—Rajputana, East	67,000	29	25·98	22·87	— 3·11	...	208,370
III-B. ,, West	58,000	10	11·71	17·59	+ 5·88	341,040	...
IV.—Central India States	91,000	24	43·40	32·28	—11·12	...	1,011,920
V.—Bihar	30,000	15	45·58	38·80	— 6·78	...	203,400
VI.—Western Bengal	38,000	14	53·69	57·59	+ 3·90	148,200	...
VII.—Lower ,, ...	54,000	28	66·16	55·77	—10·39	...	561,060
VIII.—Assam and Cachar	61,000	17	95·09	90·91	— 4·18	...	254,980
IX.—Orissa and Northern Circars	27,000	32	51·87	47·96	— 3·91	...	105,570
X.—Central Provinces, South	61,000	19	52·47	48·87	— 3·60	...	219,600
XI.—Berar and Khandesh	43,000	12	34·92	30·42	— 4·50	...	193,500
XII.—Gujarat	54,500	13	33·02	37·25	+ 4·23	230,535	...
XIII.—Sind and Cutch	66,000	10	8·26	7·94	— 0·32	...	21,760
XIV.—North Deccan	48,000	13	30·78	31·71	+ 0·93	44,640	...
XV.—Konkan *and* Ghats	16,000	11	139·17	135·36	— 3·81	...	60,960
XVI.—Malabar and Ghats	18,000	8	114·93	135·57	+20·64	371,520	...
XVII.—Hyderabad	74,000	15	33·54	28·78	— 4·76	...	337,440
XVIII.—Mysore and Bellary	59,000	18	29·15	25·48	— 3·69	...	214,020
XIX.—Carnatic	72,000	36	36·84	35·74	— 1·10	...	79,200
XX.—Arakan	11,000	6	154·03	145·64	— 8·39	...	92,290
XXI.—Pegu	32,500	7	72·55	79·90	+ 7·35	238,875	...
XXII.—Tenasserim	10,500	4	173·33	199·79	+26·46	277,830	...
XXIII.—Upper Burma	?	18	39·50	35·69	— 3·81	...	...

On the mean of the whole area represented in the above table there was a defect of 2·73 inches or, excluding Burma, of 3·22 inches.

TABLE 109.—*Geographical summary of the distribution of rainfall in 1907 according to seasons.*

Meteorological Division.	JANUARY AND FEBRUARY.			MARCH TO MAY.			JUNE TO OCTOBER.			NOVEMBER AND DECEMBER.		
	Normal over division.	Actual over division.	Difference.	Normal over division.	Actual over division.	Difference.	Normal over division.	Actual over division.	Difference.	Normal over division.	Actual over division.	Difference.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
North-West Himalayas ...	6·03	9·60	+ 3·57	7·11	11·27	+ 4·16	42·48	21·92	−20·51	1·66	0·01	− 1·65
Punjab Plains	2·21	3·79	+ 1·58	2·42	4·49	+ 2·07	15·92	10·89	− 5·03	0·78	0·01	− 0·77
nited Provinces of Agra and Oudh.	1·52	3·40	+ 1·88	1·38	2·34	+ 0·96	35·61	19·89	−15·72	0·45	0	− 0·45
Rajputana	0·48	1·70	+ 1·22	0·77	1·28	+ 0·51	20·69	18·54	− 2·15	0·38	0	− 0·38
Central India States ...	1·00	3·00	+ 2·00	0·76	1·06	+ 0·30	40·97	27·91	−13·06	0·66	0·31	− 0·35
Bihar	1·26	2·60	+ 1·34	2·50	2·48	− 0·02	41·12	34·73	− 6·39	0·32	0·04	− 0·28
Western Bengal and Chota Nagpur.	1·51	2·57	+ 1·06	3·63	5·41	+ 1·78	47·96	48·87	+ 0·91	0·60	0·76	+ 0·16
Lower Bengal	1·39	0·74	− 0·65	10·55	11·72	+ 1·17	53·08	42·16	−10·92	0·71	0·49	− 0·22
Eastern Himalayas ...	1·64	2·37	+ 0·73	18·03	18·94	+ 0·91	109·92	97·60	− 6·32	0·55	0·42	− 0·13
Assam and Eastern Bengal ...	1·83	2·58	+ 0·75	22·64	22·22	− 0·42	69·44	65·47	− 3·97	1·19	0·63	− 0·56
Orissa and Northern Circars...	0·74	0·61	− 0·13	4·81	7·17	+ 2·36	44·11	38·76	− 5·35	2·18	1·84	− 0·34
Central Provinces, South ...	0·93	2·47	+ 1·54	1·85	3·31	+ 1·46	48·85	42·14	− 6·71	0·83	0·95	+ 0·12
Berar and Khandesh ...	0·52	2·30	+ 1·78	1·09	1·40	+ 0·31	32·34	26·26	− 6·08	0·99	0·47	− 0·52
Gujarat	0·18	0·69	+ 0·51	0·37	0·12	− 0·25	31·95	35·30	+ 3·35	0·30	0	− 0·30
Sind and Cutch	0·49	1·25	+ 0·76	0·45	0·26	− 0·19	7·39	7·13	− 0·26	0·21	0	− 0·21
North Deccan	0·18	0·03	− 0·15	3·50	3·14	− 0·36	25·65	27·79	+ 2·14	1·45	0·75	− 0·70
Konkan and Ghats ...	0·22	0·13	− 0·09	1·71	1·70	− 0·01	131·63	129·56	− 2·07	0·90	0·46	− 0·44
Malabar and Ghats ...	0·52	0·31	− 0·21	11·34	8·86	− 2·48	99·16	118·85	+19·69	3·91	7·55	+ 3·64
Hyderabad	0·26	0·18	− 0·08	1·87	4·97	+ 3·10	29·71	23·32	− 6·39	1·30	0·59	− 0·71
Ceded Districts and Mysore	0·24	0·08	− 0·16	4·80	5·08	+ 0·28	21·60	17·40	− 4·20	2·52	2·91	+ 0·39
Carnatic	0·92	0·29	− 0·63	4·07	5·00	+ 0·93	21·12	17·41	− 3·71	10·66	12·98	+ 2·32
Nilgiris	0·73	0·16	− 0·57	10·39	9·90	− 0·49	29·83	37·47	+ 7·64	5·65	5·72	+ 0·07
Arakan	0·77	0·49	− 0·28	14·96	15·34	+ 0·38	135·45	128·25	− 7·20	2·87	1·56	− 1·31
Pegu	0·20	0·50	+ 0·30	8·95	14·28	+ 5·33	45·27	47·94	+ 1·67	2·60	2·38	− 0·22
Tenasserim	0·98	1·15	+ 0·17	22·36	34·79	+12·43	147·69	161·29	+13·60	2·31	2·56	+ 0·25
Upper Burma	0·21	0·34	+ 0·13	6·18	6·63	+ 0·45	30·23	25·78	− 4·51	1·48	1·25	− 0·23
Bay Islands	1·15	3·22	+ 2·07	15·45	17·17	+ 1·72	69·09	54·86	−14·23	10·68	30·83	+20·15

TABLE 110.—*Average, over the 14 chief political divisions, of the actual and normal rainfall for the four seasons of the year 1907, and for the whole year.*

DIVISION.	JANUARY AND FEBRUARY.				MARCH TO MAY.				JUNE TO SEPTEMBER.				OCTOBER TO DECEMBER.				WHOLE YEAR.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"		"	"	"		"	"	"		"	"	"		"	"	"	
Burma	0·43	0·26	+0·17	+ 65	12·69	10·58	+2·11	+ 20	59·13	59·92	−0·74	− 1	8·66	7·24	+1·42	+ 23	81·16	78·00	+3·16	+ 4
Eastern Bengal and Assam	2·25	1·72	+0·53	+ 31	19·00	21·26	−2·26	− 11	62·54	63·47	−0·93	− 1	2·40	6·08	−3·68	− 61	86·19	92·53	−6·34	− 7
Bengal	1·56	1·23	+0·34	+ 28	6·87	5·32	+1·55	+ 29	41·09	43·73	−2·64	− 6	1·05	4·21	−3·16	− 75	50·57	54·48	−3·91	− 7
United Provinces	3·33	1·48	+1·85	+125	2·18	1·21	+0·97	+ 80	20·26	34·97	−14·71	−42	0	1·62	−1·62	−100	25·77	39·48	−13·71	−35
Punjab	3·74	2·18	+1·56	+ 72	3·86	1·71	+2·15	+126	11·31	16·15	−4·84	−30	0·01	0·31	−0·30	− 99	18·92	20·35	−1·93	− 9
North-West Frontier Province	4·68	2·71	+1·97	+ 69	6·99	3·61	+3·11	+ 82	6·69	8·60	−1·71	−20	0·13	1·23	−1·11	− 90	18·61	15·35	+2·16	+13
Sind	1·32	0·53	+0·79	+140	0·38	0·39	−0·01	− 3	6·20	5·49	+0·71	+13	0	0·23	−0·22	−100	7·90	6·63	+1·27	+19
Rajputana	1·90	0·56	+1·34	+239	1·28	0·66	+0·62	+ 94	16·64	19·51	−2·87	−15	0	0·69	−0·69	−100	19·82	21·42	−1·60	− 7
Bombay	0·21	0·18	+0·03	+ 17	1·54	1·59	−0·05	− 3	43·41	41·76	+1·65	+ 4	0·62	3·67	−3·05	− 83	45·78	47·20	−1·42	− 3
Central India	1·20	0·84	+1·05	+125	0·73	0·57	+0·16	+ 28	25·31	35·21	−9·40	−27	0·22	1·58	−1·36	− 86	28·05	38·20	−9·55	−25
Central Provinces	3·01	0·75	+2·26	+301	1·88	1·17	+0·71	+ 61	31·70	37·49	−5·79	−15	0·70	2·59	−1·90	− 69	37·38	42·00	−4·62	−11
Hyderabad	0·16	0·25	−0·09	− 36	4·55	1·85	+2·70	+146	22·23	26·26	−4·03	−15	0·64	4·12	−3·48	− 84	27·58	32·48	−4·90	−15
Mysore	0·19	0·11	+0·08	+ 73	5·66	5·25	+0·41	+ 12	25·29	20·57	+4·72	+23	4·89	8·63	−3·74	− 43	36·23	34·56	+1·67	+ 5
Madras	0·24	0·86	−0·62	− 72	5·42	4·50	+0·92	+ 20	25·35	24·29	+1·06	+ 4	12·90	14·53	−1·63	− 11	43·91	44·18	−0·27	− 1
Mean of India when the size of the above areas is taken into account.	1·64	0·91	+0·73	+ 80	5·41	4·50	+0·91	+ 20	32·12	35·24	−3·12	− 9	2·79	4·44	−1·65	− 37	41·99	45·09	−3·10	− 7

TABLE 111.—*Average, over the 34 sub-divisions, of the actual and normal rainfall for the four seasons of the year 1907, and for the whole year.*

SUB-DIVISION.	JANUARY AND FEBRUARY.			MARCH TO MAY.			JUNE TO OCTOBER.			NOVEMBER AND DECEMBER.			WHOLE YEAR.		
	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.
	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
1. Bay Islands	3·22	1·16	+2·06	17·17	15·45	+1·72	54·31	69·09	−14·78	30·63	10·68	+20·15	105·53	96·38	+ 9·15
2. Lower Burma	0·43	0·24	+0·19	20·17	14·60	+5·57	114·84	105·46	+ 9·38	2·24	1·76	+ 0·48	137·68	122·06	+15·62
3. Upper Burma	0·42	0·26	+0·16	6·45	7·25	−0·80	25·67	33·32	− 6·65	1·35	1·58	− 0·23	33·89	41·40	− 7·52
4. Assam	3·64	2·14	+1·50	21·91	26·97	−5·06	70·59	69·14	+ 1·45	0·67	1·12	− 0·45	96·81	99·37	− 2·56
5. Eastern Bengal	0·82	1·29	−0·47	16·04	15·40	+0·64	57·87	67·97	−10·10	0·46	0·84	− 0·38	75·19	85·50	−10·31

TABLE 111.—*Average, over the 34 sub-divisions, of the actual and normal rainfall for the four seasons of the year 1907, and for the whole year*—concld.

SUB-DIVISION.	JANUARY AND FEBRUARY.			MARCH TO MAY.			JUNE TO OCTOBER.			NOVEMBER AND DECEMBER.			WHOLE YEAR.		
	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual	Normal.	Departure from normal.
	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
6. Bengal	0·97	1·26	—0·29	9·59	7·60	+1·99	40·74	48·55	— 7·81	0·77	0·70	+ 0·07	52·07	58·11	— 6·04
7. Orissa	0·97	1·03	—0·06	8·88	5·70	+3·18	47·03	49·33	— 2·30	1·09	1·58	— 0·49	58·03	57·69	+ 0·33
8. Chota Nagpur	2·38	1·27	+1·11	4·82	3·91	+0·91	48·32	47·67	+ 0·65	1·08	0·53	+ 0·55	56·60	53·38	+ 3·22
9. Bihar	2·29	1·26	+1·03	3·69	3·10	+0·59	36·72	44·61	— 7·89	0·07	0·28	— 0·21	42·77	49·25	— 6·48
10. United Provinces, East	2·99	1·15	+1·84	1·67	1·12	+0·55	21·06	37·31	—16·25	0	0·44	— 0·44	25·72	40·02	—14·30
11. Do. do. West	3·70	1·86	+1·84	2·73	1·31	+1·42	19·34	35·13	—15·79	0	0·57	— 0·57	25·77	38·87	—13·10
12. Punjab, East and North	4·39	2·47	+1·92	4·18	1·83	+2·35	12·81	19·05	— 6·24	0	0·66	— 0·66	21·38	24·01	— 2·63
13. Do. South-west	1·25	1·09	+0·16	2·64	1·29	+1·35	5·78	6·18	— 0·45	0	0·33	— 0·33	9·62	8·89	+ 0·73
14. Kashmir	7·35	5·99	+1·36	9·24	6·88	+2·36	10·70	12·51	— 1·81	0·10	1·53	— 1·73	27·39	27·21	+ 0·18
15. North-West Frontier Province	4·58	2·71	+1·87	6·92	3·81	+3·11	7·01	8·86	— 1·85	0	0·97	— 0·97	18·51	16·35	+ 2·16
16. Baluchistan	3·31	2·88	+0·43	2·23	1·86	+0·37	3·46	2·21	+ 1·25	0·06	1·45	— 1·39	9·06	8·49	+ 0·66
17. Sind	1·32	0·53	+0·79	0·38	0·39	—0·01	6·20	5·51	+ 0·69	0	0·20	— 0·20	7·90	6·63	+ 1·27
18. Rajputana, West	1·34	0·29	+1·05	0·64	0·44	+0·20	13·29	10·74	+ 2·55	0	0·34	— 0·34	15·27	11·81	+ 3·46
19. Do. East	2·13	0·65	+1·48	1·51	0·74	+0·77	17·97	22·95	— 4·98	0	0·59	— 0·59	21·61	24·93	— 3·32
20. Gujarat	0·39	0·15	+0·24	0·12	0·27	—0·15	33·24	34·39	— 1·15	0	0·33	— 0·33	33·75	35·14	— 1·39
21. Central India, West	1·03	0·55	+0·48	0·47	0·47	0	24·65	32·78	— 8·13	0·26	0·59	— 0·33	26·41	34·33	— 7·98
22. Do. do. East	4·38	1·50	+2·88	1·22	0·79	+0·43	28·23	42·62	—14·39	0·14	0·74	— 0·60	33·97	45·65	—11·68
23. Berar	3·22	0·52	+2·70	1·35	0·98	+0·37	25·06	29·68	— 4·60	0·67	0·89	— 0·22	30·32	32·07	— 1·75
24. Central Provinces, West	3·60	0·93	+2·67	1·63	0·97	+0·66	32·65	43·85	—11·20	0·81	0·74	+ 0·07	38·69	46·49	— 7·80
25. Do. do. East	1·66	0·85	+0·81	3·33	1·84	+1·49	42·44	49·44	— 7·00	0·86	0·77	+ 0·19	48·39	52·90	— 4·51
26. Konkan	0·10	0·18	—0·08	1·32	1·98	—0·66	110·34	110·04	+ 0·30	0·43	0·94	— 0·51	112·19	113·14	— 0·95
27. Bombay Deccan	0·14	0·20	—0·06	2·56	2·29	+0·27	27·96	28·70	— 0·74	0·41	1·12	— 0·71	31·07	32·31	— 1·24
28. Hyderabad, North	0·23	0·24	—0·01	2·99	1·50	+1·49	24·14	32·76	— 8·62	0·47	1·31	— 0·84	27·83	35·81	— 7·98
29. Do. South	0·10	0·26	—0·16	5·86	2·15	+3·71	20·69	25·99	— 5·30	0·74	1·32	— 0·58	27·39	29·72	— 2·33
30. Mysore	0·19	0·11	+0·08	5·86	5·25	+0·61	27·54	26·05	+ 1·49	2·64	3·15	— 0·51	36·23	34·56	+ 1·67
31. Malabar	0·29	0·40	—0·11	8·48	10·55	—2·07	139·53	112·52	+27·01	8·30	5·23	+ 3·07	156·60	128·70	+27·90
32. Madras, South-east	0·36	1·22	—0·86	5·65	4·58	+1·07	29·77	33·28	— 3·51	11·60	10·83	+ 0·77	47·38	49·91	— 2·53
33. Do. Deccan	0·02	0·23	—0·21	2·84	2·51	+0·33	13·18	19·35	— 6·24	3·54	2·70	+ 0·84	19·51	24·79	— 5·28
34. Do. Coast, North	0·14	0·69	—0·55	5·24	3·41	+1·83	24·89	31·54	— 6·65	5·37	4·76	+ 0·61	35·64	40·40	— 4·76

TABLE 112.—*Average, over the 34 sub-divisions, of the actual and normal number of rainy days for the four seasons of the year 1907, and for the whole year.*

SUB-DIVISION.	JANUARY AND FEBRUARY.			MARCH TO MAY.			JUNE TO OCTOBER.			NOVEMBER AND DECEMBER.			WHOLE YEAR.		
	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.
1. Bay Islands	3·0	3·4	−0·4	22·5	20·4	+2·1	79·0	96·2	−17·2	25·5	15·6	+9·9	130·0	135·6	−5·6
2. Lower Burma	1·0	0·4	+0·6	17·0	16·6	+0·4	101·6	99·7	+1·9	3·6	2·7	+0·9	123·2	119·4	+3·8
3. Upper Burma	1·1	0·7	+0·4	10·3	11·0	−0·7	41·1	46·0	−4·9	2·4	2·8	−0·4	54·9	60·5	−5·6
4. Assam	7·1	5·2	+1·9	33·7	33·4	+0·3	75·5	73·9	+1·6	1·8	2·3	−0·5	118·1	114·8	+3·3
5. Eastern Bengal	2·0	2·3	−0·3	21·2	17·6	+3·6	63·7	67·7	−4·0	1·6	1·1	+0·5	88·5	88·7	−0·2
6. Bengal	2·4	2·4	0	13·6	10·9	+2·7	53·2	59·7	−6·5	1·4	0·9	+0·5	70·6	73·9	−3·3
7. Orissa	2·0	1·9	+0·1	12·8	8·6	+4·2	53·0	58·5	−5·5	·1	1·9	+0·2	69·9	70·9	−1·0
8. Chota Nagpur	4·9	2·7	+2·2	8·4	7·1	+1·3	49·9	57·8	−7·9	1·7	0·9	+0·8	64·9	68·5	−3·6
9. Bihar	4·3	2·6	+1·7	7·8	4·9	+2·9	40·0	48·1	−8·1	0·2	0·6	−0·4	52·3	56·2	−3·9
10. United Provinces, East	5·8	2·6	+3·2	4·8	2·4	+2·4	25·4	40·0	−14·6	0	0·9	−0·9	36·0	45·9	−9·9
11. Do. do. West	6·1	3·6	+2·5	6·4	3·1	+3·3	21·4	35·5	−14·1	0	1·2	−1·2	33·9	43·4	−9·5
12. Punjab, East and North	7·6	4·6	+3·0	8·5	4·0	+4·5	16·0	20·6	−4·6	0	1·2	−1·2	32·1	30·4	+1·7
13. Do. South-west	3·1	2·6	+0·5	6·5	3·1	+3·4	8·5	8·5	0	0	0·7	−0·7	18·1	14·9	+3·2
14. Kashmir	12·8	9·4	+3·4	15·5	13·3	+2·2	16·2	18·4	−2·2	0·4	4·0	−3·6	44·9	45·1	−0·2
15. North-West Frontier Province	9·4	5·3	+4·1	14·5	7·6	+6·9	12·1	12·0	+0·1	0	1·7	−1·7	35·5	26·6	+8·9
16. Baluchistan	6·7	6·7	0	6·1	5·1	+1·0	5·0	4·0	+1·0	0·2	3·3	−3·1	18·0	19·1	−1·1
17. Sind	3·0	1·5	+1·5	1·1	1·0	+0·1	9·6	6·2	+3·4	0	0·5	−0·5	13·7	9·2	+4·5
18. Rajputana, West	3·0	0·8	+2·2	1·6	1·1	+0·7	14·4	13·5	+0·9	0	0·7	−0·7	19·2	16·1	+3·1
19. Do. East	4·1	1·6	+2·5	4·5	1·9	+2·6	22·3	28·4	−6·1	0	1·3	−1·3	30·9	33·2	−2·3
20. Gujarat	1·1	0·3	+0·8	0·3	1·1	−0·8	34·5	37·5	−3·0	0	0·5	−0·5	35·9	39·4	−3·5
21. Central India, West	2·3	1·2	+1·1	1·3	1·1	+0·2	31·6	40·1	−8·5	0·4	1·4	−1·0	35·6	43·8	−8·2
22. Do. do. East	7·4	3·2	+4·2	3·9	1·9	+2·0	32·3	46·0	−13·7	0·4	1·5	−1·1	44·0	52·6	−8·6
23. Berar	4·1	1·2	+2·9	3·3	2·2	+1·1	37·3	41·0	−3·7	1·0	1·3	−0·3	45·7	45·7	0
24. Central Provinces West	5·9	1·8	+4·1	4·0	2·3	+1·7	39·5	50·0	−10·5	1·3	1·2	+0·1	50·7	55·3	−4·6
25. Do. do. East	3·5	1·6	+1·9	7·2	3·9	+3·3	49·9	54·4	−4·5	1·7	1·2	+0·5	62·3	61·1	+1·2
26. Konkan	0·3	0·3	0	2·2	2·7	−0·5	80·6	92·0	−11·4	0·7	1·6	−0·9	83·8	96·6	−12·8
27. Bombay Deccan	0·4	0·4	0	5·3	4·4	+0·9	41·6	44·0	−2·4	1·0	1·9	−0·9	48·3	50·7	−2·4
28. Hyderabad, North	1·1	0·5	+0·6	5·3	3·6	+1·7	37·2	46·0	−8·8	1·1	2·2	−1·1	44·7	52·3	−7·6
29. Do. South	0·5	0·6	−0·1	9·4	4·3	+5·1	34·4	42·3	−7·9	2·5	2·5	0	46·8	49·7	−2·9
30. Mysore	0·4	0·2	+0·2	9·2	3·7	+5·5	39·3	39·6	−0·3	5·3	4·9	+0·4	54·2	53·4	+0·8
31. Malabar	0·3	0·4	+0·4	12·8	13·5	−0·7	99·0	98·9	+0·1	9·5	7·0	+2·5	122·1	119·8	+2·3
32. Madras, South-east	0·8	1·7	−0·9	8·9	6·6	+2·3	29·7	27·1	+2·4	13·7	12·4	+1·3	47·1	47·8	−0·7
33. Do. Deccan	0·1	0	+0·1	4·7	4·5	+0·2	24·7	31·0	−6·3	5·9	4·1	+1·2	34·8	39·6	−4·8
34. Do. Coast, North	0·4	0·8	−0·4	3·2	5·4	+2·8	34·0	40·7	−6·7	6·7	4·7	+2·0	49·3	51·6	−2·3

I. The cold weather period.—In respect of rainfall, the cold weather season of 1907 was abnormal and bore a strong resemblance to the corresponding period of 1906. January was very dry in nearly all parts of India, as also had been the preceding three months. In February on the other hand precipitation was excessive in almost all districts of northern and central India, and up to the average or a little below it over the rest of the country. In the Central Provinces and Central India the precipitation was the heaviest on record, exceeding considerably that of the corresponding months of 1898 and 1906, both of which were remarkably wet in those regions :—

(*a*) On the whole, notwithstanding the dryness of January, the total precipitation of the period was much above the average, equalling nearly that of the corresponding season of the previous year. Hyderabad Deccan was the only large area where the seasonal fall was short of the average but, as the normal quantity there does not exceed a quarter of an inch, the defect of 36 per cent. was of no significance. The region rainiest by percentage comparison with the normal was defined by the Central Provinces, Rajputana, Sind, the United Provinces and Central India, which received two to four times their normal quantity.

TABLE 113.

Division.	Rainfall of period, January and February.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	0·43	0·26	+0·17	+65
Eastern Bengal and Assam	2·25	1·72	+0·53	+31
Bengal	1·56	1·22	+0·34	+28
United Provinces	3·33	1·48	+1·85	+125
Punjab	3·74	2·18	+1·56	+72
North-West Frontier Province	4·58	2·71	+1·87	+69
Sind	1·32	0·53	+0·79	+149
Rajputana	1·90	0·56	+1·34	+239
Bombay	0·21	0·18	+0·03	+17
Central India	1·89	0·84	+1·05	+125
Central Provinces	3·01	0·75	+2·26	+301
Hyderabad	0·16	0·25	−0·09	−36
Mysore	0·19	0·11	+0·08	+73
Madras	0·24	0·86	−0·62	−72
Mean of India when the size of the above areas is taken into account.	1·64	0·91	+0·73	+80

(*b*) In the regions beyond upper India weather was on the whole drier than usual in January and unusually disturbed during February. The distribution of precipitation as regards time thus exhibited the same general characteristics as that in India. On the average of the whole period there was an excess in Kashmir, Baluchistan, Persia and Afghanistan, and a defect in Mesopotamia.

TABLE 114.

Station.	Rainfall of period, January and February.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Aden	0·28	0·61	−0·33	−54
Perim	0·35	0·60	−0·25	−42
Baghdad	2·10	3·55	−1·45	−41
Ispahan	2·19	0·43	+1·76	+409
Tehran	2·91	2·11	+0·80	+38
Bushire	5·13	5·47	−0·34	−6
Meshed	1·22	1·44	−0·22	−15
Jask	2·10	1·84	+0·26	+14
Chaman	3·51	3·05	+0·46	+15
Quetta	2·32	4·24	−1·92	−45*
Kabul	3·87	2·22	+1·65	+74
Gilgit	0·10	0·37	−0·27	−73
Srinagar	8·74	6·29	+2·45	+39
Kashgar	0·40	0·39	+0·01	+3
Leh	2·12	0·66	+1·46	+221

* Fuller data show that the precipitation was well above normal in Baluchistan.

(*c*) In the equatorial region as represented by Seychelles and Zanzibar the rainfall exceeded the normal in both months ; while further south at Mauritius there was a marked defect throughout the period.

TABLE 115.

Station.	Departure from normal of rainfall.		
	January.	February.	Period, January and February.
	"	"	"
Seychelles	+1·90	+5·01	+6·91
Zanzibar	+1·86	−1·54	+0·32
Mauritius	−5·92	−4·47	−10·39

II. The hot weather period.—The unsettled weather which had characterized February, lasted quite up to the end of April, the commencement of the hot weather conditions being thus delayed even more than in the two preceding years. The combined fall of the two months averaged 1·45", or 88 per cent above the normal, this being the largest excess for the period (March and April) recorded since 1875. Further, the disturbed conditions were not confined to any particular province but extended over practically the whole of the country. The determining actions of the abnormal precipitation were not, however, of a general character: in northern India the wet weather was due to a series of cold weather disturbances which successively traversed that region from west to east, while in the Peninsula it accompanied the prevalence of unusual conditions over the Bay of Bengal and the Arabian Sea. May, on the other hand, like the corresponding months of 1905 and 1906, was one of deficient rainfall throughout the country with the exception of Burma and Rajputana. The defect was most pronounced on the one hand in northeast India, where the ordinary hot weather storms were less frequent and less severe than usual, and on the other hand in the Peninsula owing in part to the entire absence of preliminary advances of humid monsoon winds, and in part to the comparative rareness of the usual thunderstorms.

(*a*) The aggregate precipitation of the period March to May agreed with the normal in Sind and Bombay, and fell short of it in Eastern Bengal and Assam.

TABLE 116.

Division.	Rainfall of period, March to May.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal
	"	"	"	
Eastern Bengal and Assam	19·00	21·26	−2·26	−11
Sind	0·38	0·39	−0·01	−3
Bombay	1·54	1·59	−0·05	−3

(*b*) Over the remainder of the country, including Burma, Bengal, the United Provinces, the Punjab, the North-West Frontier Province, Rajputana, the Central Provinces, Central India, Hyderabad, Mysore and Madras, the normal rainfall of the period was exceeded, the excess being greatest in absolute amount in the North-West Frontier Province, which recorded upwards of three inches more than the average; and expressed as a percentage of the normal, in Hyderabad (Deccan) and the Punjab (146 and 126 per cent. respectively).

TABLE 117.

Division.	Rainfall of period, March to May.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	12·69	10·58	+2·11	+20
Bengal	6·87	5·32	+1·55	+29
United Provinces	2·18	1·21	+0·97	+80
Punjab	3·86	1·71	+2·15	+126
North-West Frontier Province	6·92	3·81	+3·11	+82
Rajputana	1·28	0·66	+0·62	+94
Central India	0·73	0·57	+0·16	+28
Central Provinces	1·88	1·17	+0·71	+61
Hyderabad	4·35	1·65	+2·70	+146
Mysore	5·86	5·25	+0·61	+12
Madras	5·42	4·50	+0·92	+20
Mean of India when the size of the areas is taken into account.	5·41	4·50	+0·91	+20

(*c*) The precipitation of the period in regions to the north and west of upper India, although in excess on the whole, was rather irregularly distributed. Kashgar marked the probable northern limit of the zone of abundant rainfall.

TABLE 118.

Station.	Departure from normal.			Percentage departure of period, March to May.
	March.	April.	May.	
	"	"	"	
Aden	−0·87	−0·04	−0·19	−76
Perim	−0·27	+1·04	−0·37	+61
Baghdad	+2·57	+1·42	+0·55	+162
Ispahan	+0·37	+0·11	+0·43	+61
Tehran	−1·60	−0·08	+0·77	−21
Bushire	−0·78	+0·08	+0·02	−44
Meshed	−0·32	+2·16	−1·52	+63
Jask	−1·15	+0·23	0	−78
Chaman	−0·22	+0·02	−0·05	−47
Quetta	+0·66	+0·86	−0·40	+34
Kabul	+0·23	+0·76	−0·54	+6
Gilgit	−0·20	+0·15	+0·19	+6
Srinagar	+0·96	+1·06	−1·02	+9
Kashgar	−0·20	−0·12	−0·88	−100
Leh	+0·37	+0·09	−0·14	+53

The excess during May in Persia is an indication that the winter there was even more protracted than in upper India, where the very wet conditions of the preceding months gave place to weather drier than usual during May.

(*d*) In the Indian Ocean rainfall was throughout in marked defect at Zanzibar and Seychelles, and in slight excess at Mauritius.

TABLE 119.

Station.	PERCENTAGE DEPARTURE FROM NORMAL OF RAINFALL.			
	March.	April.	May.	Period, March to May.
Seychelles	−82	−30	−19	−51
Zanzibar	−29	−51	−29	−39
Mauritius	−21	+72	+29	+15

III. The south-west monsoon period, June to September.

The heavy precipitation of the winter and spring months was as usual followed by a marked retardation of the monsoon rains, particularly in the interior districts. The Arabian Sea current appeared on the Malabar coast on June 8th and on the Konkan coast on the 15th, that is from five to ten days after the normal date; and was weak and unsteady throughout the rest of June and the first three weeks of July. The Bay current on the other hand was established on about the usual date in Bengal, but failed for some time to advance properly up the Gangetic plain beyond Bihar. The extension inland of the monsoon currents was in fact so slow that in the United Provinces, the east Punjab, Rajputana, Gujarat and Central India the rains were not fully established before the fourth week in July; whereas in ordinary years this event occurs during the second fortnight of June. From about July 21st to the same date in August the monsoon was unusually active, but on August 22nd the Arabian Sea current collapsed almost entirely and a suspension of rainfall occurred over northwestern India. The break thus initiated extended eastwards and by the end of the month rain had ceased to fall in the central parts of the country. No appreciable improvement in the strength of the currents occurred in September, during which month rainfall was almost confined to Burma, northeast India and the Peninsula, and even in these regions it was less than the normal in most places.

The monsoon currents of 1907 were thus not only late in being established but also retreated much before their normal date from northern and central India, with the result that the total period of the activity of the monsoon was seriously shortened. The statement below illustrates these features:—

TABLE 120.

Division.	ACTUAL DATE OF		TOTAL DURATION OF MONSOON.	
	Commencement of monsoon.	Termination of monsoon.	1907.	Normal.
Bihar	June 19th	Sept. 27th	14 weeks	17½ weeks
Chota Nagpur . .	„ 18th	„ 25th	14 „	17½ „
United Provinces, East.	July 21st	„ 7th	7 „	17
„ „ West .	„ 21st	Aug. 29th	5½ „	13½ „
East Punjab . . .	„ 23rd	„ 26th	5 „	11 „
Rajputana . .	„ 28th	Sept. 6th	6 „	14 „
Gujarat . . .	„ 27th	„ 7th	6 „	14½ „
Central India . .	„ 22nd	„ 22nd	9 „	15½ „
Central Provinces. .	June 16th	„ 23rd	14 „	18 „

The cessation of the rains in northern and central India at a time when rain is essential for agricultural purposes was disastrous in its consequences quite as much as in 1896.

In respect of delay in the advent of the monsoon currents and of their general weakness, the rainy season of 1907 was very similar to the corresponding periods of the three previous years, but differed from them in this important point that while in 1904, 1905 and 1906 the final withdrawal of the monsoon from northern India took place at about the normal date, in 1907 that event occurred several weeks earlier.

(*a*) On the average of the whole period and area the rainfall was 9 per cent. below the normal. Similar or even greater defects were recorded in 1877, 1891, 1895, 1899 and 1901, but only in 1895 and 1899 was the failure associated with an early withdrawal of the currents from the northern and central parts of the country.

(*b*) The local distribution of rainfall was on the whole somewhat more irregular in the field of the Arabian Sea current than in that served by the Bay monsoon, and it was even more unfavourable than in 1906.

TABLE 121.

Division.	Rainfall of period, June to September.				Rainfall of period, June to October.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"		"	"	"	
Burma	59·18	59·92	−0·74	−1	66·29	65·50	+0·79	+1
Eastern Bengal and Assam	62·54	63·47	−0·93	−1	64·37	68·56	−4·19	−6
Bengal	41·09	43·73	−2·64	−6	41·50	47·26	−5·76	−12
United Provinces	20·26	34·97	−14·71	−42	20·26	36·29	−16·03	−44
Punjab	11·31	16·15	−4·84	−30	11·32	16·87	−5·05	−31
North-West Frontier Province	6·89	8·60	−1·71	−20	7·01	8·86	−1·85	−21
Sind	6·20	5·49	+0·71	+13	6·20	5·51	+0·69	+13
Rajputana	16·64	19·51	−2·87	−15	16·64	19·68	−3·04	−15
Bombay	43·41	41·76	+1·65	+4	43·76	44·60	−0·84	−2
Central India	25·81	35·21	−9·40	−27	25·81	36·15	−10·34	−29
Central Provinces	31·70	37·49	−5·79	−15	31·71	39·27	−7·56	−19
Hyderabad	22·23	26·26	−4·03	−15	22·25	29·06	−6·81	−23
Mysore	25·29	20·57	+4·72	+23	27·54	26·05	+1·49	+6
Madras	25·35	24·29	+1·06	+4	29·30	31·40	−1·50	−5
Mean of India when the size of the above areas is taken into account.	32·12	35·24	−3·12	−9	33·63	38·16	−4·53	−12

The shortage was thus greatest in the northern half of the field of the Arabian Sea current. It was persistent throughout the period in the United Provinces, though on the whole more marked in the terminal months than in July or August.

(c) The available information relating to precipitation in the highlands to the west and north of north-west India, and at the insular stations in the Indian Ocean, although limited in amount, indicates that the shortage of the rains in the land area of India was not compensated by an excess elsewhere.

TABLE 122.

Station.	Rainfall of period, June to September.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Mauritius	5·18	8·03	−2·85	−35
Seychelles	11·44	15·93	−4·49	−28
Zanzibar	5·31	7·77	−2·46	−32
Aden	0·02	0·31	−0·29	−94

Station.	Rainfall of period, June to September.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Perim	0	0·47	−0·47	−100
Baghdad	0	0·09	−0·09	−100
Ispahan	0·05	0·06	−0·01	−17
Bushire	0	0	0	0
Meshed	0	0·27	−0·27	−100
Chaman	0·33	0·23	+0·10	+43
Quetta	1·85	1·92	−0·07	−4
Kabul	0·33	0·62	−0·29	−47
Gilgit	2·31	1·78	+0·53	+30
Srinagar	8·93	7·81	+1·12	+14
Kashgar	2·10	2·13	−0·03	−1
Aden	0·95	1·31	−0·36	−27

IV. The retreating southwest monsoon period.

The retreating monsoon current, as measured by its rain producing capacity, was abnormally weak during practically the whole of the period; in this particular comparing unfavourably even with the monsoon of 1906, during which year a marked revival of activity occurred over the Peninsula in December.

A study of the records of previous years shows that in seven cases out of the nine which are on record the general weakness of the monsoon during the period June to September persisted through the succeeding season, while the currents were retreating down the Indian seas, and the behaviour of the monsoon of 1907 was in agreement with this observation.

The following table illustrates this statement :—

TABLE 123.

Year.	Departure from normal of rainfall over India during period.	
	June to September.	October to December.
	"	"
1876	—3·21	—2·07
1877	—6·64	+2·22
1891	—4·58	—0·74
1895	—2·22	—1·06
1899	—10·03	—2·50
1901	—4·68	—0·10
1904	—3·27	—1·12
1905	—4·90	—1·30
1907	—2·62	—1·78

The converse relationship is not however found to be very close.

Conditions were less disturbed than usual in Kashmir, Turkistan and the plateaux of Persia and Baluchistan, and there were no indications of an early or severe winter.

(*a*) There was scarcely any rainfall over northwest India: the defect, although not large in actual amount, was serious from the standpoint of crops as it was the continuation of a feature which had characterized the greater part of the rainy season proper. The period was quite rainless in the United Provinces which usually records moderate rainfall during October.

TABLE 124.

Division.	Rainfall of period, October to December.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
United Provinces . . .	0	1·82	—1·82	—100
Punjab	0·01	0·81	—0·80	—99
North-West Frontier Province	0·12	1·23	—1·11	—90
Sind	0	0·22	—0·22	—100
Rajputana	0	0·69	—0·69	—100

(*b*) Over the rest of the country more or less rain was received, but the aggregate fall was everywhere below the average except in Burma, which obtained 22 per cent. more than its normal quantity. The defect exceeded 50 per cent. in amount over the greater part of the region of scanty precipitation and was on the whole most pronounced in Bombay, Central India and Hyderabad, which received less than one-fifth of their normal supply.

TABLE 125.

Division.	Rainfall of period, October to December.			
	Actual.	Normal.	Departure from normal	Percentage departure from normal.
	"	"	"	
Burma	8·86	7·24	+1·62	+22
Eastern Bengal and Assam .	2·40	6·06	—3·68	—61
Bengal	1·05	4·21	—3·16	—75
Bombay	0·62	3·67	—3·05	—83
Central India	0·22	1·58	—1·36	—86
Central Provinces . . .	0·79	2·59	—1·80	—69
Hyderabad	0·64	4·12	—3·48	—84
Mysore	4·89	8·63	—3·74	—43
Madras	12·90	14·53	—1·63	—11
Mean of India when the size of the areas is taken into account.	2·79	4·44	—1·65	—37

(*c*) The dryness was not restricted to the Indian region, but extended beyond it westwards into Persia, northwards into east Turkistan and southwards to the Seychelles and Zanzibar.

TABLE 126.

Station.	Rainfall of period, October to December.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Mauritius	14·13	8·29	+5·84	+70
Seychelles	21·52	31·18	−9·66	−31
Zanzibar	12·42	17·03	−4·61	−27
Aden	0	0·61	−0·61	−100
Perim	0·15	0·19	−0·04	−21
Baghdad	0·59	2·60	−2·01	−77
Ispahan	0·94	1·67	−0·73	−44
Bushire	1·45	5·11	−3·66	−72
Meshed	0·55	1·63	−1·08	−66
Chaman	0·27	1·22	−0·95	−78
Quetta	0·18	1·21	−1·03	−85
Kabul	2·94	1·33	+1·61	+121
Gilgit	0·08	0·34	−0·26	−76
Srinagar	1·29	2·31	−1·01	−46
Kashgar	0	0·27	−0·27	−100
Leh	0·28	0·43	−0·15	−35

The year.—According to the table below which is based on the whole of the rainfall data of the plains of India including Burma, the rainfall of the year averaged 3·10 inches, or 7 per cent. below the normal. The deficiency was almost universal and was largely a result of the persistent weakness of the monsoon currents and their early retreat from northern and central India. On the whole the shortage was more marked in the region which usually receives its supply of rainfall from the Arabian Sea current than in that dependent upon the Bay monsoon.

TABLE 127.

Division.	Annual rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	81·16	78·00	+3·16	+4
Eastern Bengal and Assam	86·19	92·53	−6·34	−7
Bengal	50·57	54·49	−3·91	−7
United Provinces	25·77	39·48	−13·71	−35
Punjab	18·92	20·85	−1·93	−9
North-West Frontier Province	18·51	16·35	+2·16	+13
Sind	7·90	6·63	+1·27	+19
Rajputana	19·82	21·42	−1·60	−7
Bombay	45·78	47·20	−1·43	−3
Central India	28·65	38·20	−9·55	−25
Central Provinces	37·38	42·00	−4·62	−11
Hyderabad	27·38	32·48	−4·90	−15
Mysore	36·23	34·56	+1·67	+5
Madras	43·91	44·18	−0·27	−1
Mean of India when the size of the above areas is taken into account.	41·99	45·09	−3·10	−7

The seasonal distribution which is exhibited below approximated more closely to that of 1905 than to that of 1906.

TABLE 128.

Period.	Rainfall of India (when the sizes of areas are taken into account) in 1907.				Percentage departure from normal of rainfall over India.	
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	1906.	1905.
	"	"	"			
Cold weather	1·64	0·91	+0·73	+80	+133	+37
Hot "	5·41	4·50	+0·91	+20	−23	+9
South-west monsoon	32·12	35·24	−3·12	−9	−1	−7
Retreating south-west monsoon.	2·79	4·44	−1·65	−37	−9	−20
Whole year	41·99	45·09	−3·10	−7	−1	−6

The inverse relationship displayed in the preceding statement between the rainfall departures of the first two periods and the succeeding rainy season is borne out by the records of many previous years. The following table, giving

data for the years in which the total precipitation of the period January to April differed by more than half an inch from the normal, illustrates this connection :—

TABLE 129.

Year.	Departure from normal of rainfall over the Indian land area during period.	
	January to April.	June to September.
	"	"
1875	+0·56	+5·12
1876	—1·24	—3·21
1877	+1·94	—6·64
1879	—1·21	+1·20
1884	—0·75	+0·67
1886	—0·68	+1·67
1888	+0·51	—0·42
1893	+2·52	+1·84
1896	—1·02	+0·84
1898	—0·61	+0·68
1899	+0·88	—10·03
1901	+1·30	—4·68
1903	—1·11	+0·31
1905	+0·83	—4·90
1906	+0·82	—0·74
1907	+2·19	—3·14

It is noteworthy that over the greater part of the region where rainfall ordinarily occurs almost solely during the cold season, the year's precipitation was well above the average. In the Indian Ocean as represented by Mauritius, Seychelles and Zanzibar on the other hand, the year was almost as dry as in India.

TABLE 130.

Station.	Annual rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Mauritius	44·44	49·08	—4·64	—9
Seychelles	81·93	101·37	—19·44	—19
Zanzibar	42·04	60·39	—18·35	—30
Aden	0·64	2·97	—2·33	—78
Perim	1·56	1·92	—0·36	—19
Baghdad	10·03	9·04	+0·99	+11
Ispahan	5·57	3·6	+1·93	+53
Bushire	7·43	12·11	—4·68	—39
Meshed	10·08	8·29	+1·79	+22
Chaman	5·05	6·29	—1·24	—20
Quetta	8·78	10·68	—1·90	—18
Kabul	15·27	11·85	+3·42	+29
Gilgit	4·94	4·80	+0·14	+3
Srinagar	28·90	24·74	+4·16	+17
Kashgarh	2·50	3·99	—1·49	—37
Leh	4·27	3·00	+1·27	+42

The following gives for the past 17 years the departures of the mean annual rainfall of the country as derived from the data of about 2,000 rain-gauge stations.*

TABLE 131.

Year.	Annual rainfall of India.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
1891	51·52	55·61	—4·09	—7
1892	57·09	53·59	+3·50	+7
1893	61·66	53·21	+8·45	+16
1894	61·15	53·53	+7·62	+14
1895	49·22	53·11	—3·89	—7
1896	47·81	52·15	—4·34	—8
1897	52·76	51·31	+1·45	+3
1898	52·32	51·38	+0·94	+2
1899	45·01	51·78	—6·77	—13
1900	51·53	52·00	—0·47	—1
1901	48·14	51·89	—3·75	—7
1902	50·56	51·70	—1·14	—2
1903	52·97	51·59	+1·38	+3
1904	49·40	51·56	—2·16	—4
1905	48·72	51·64	—2·92	—6
1906	51·08	51·79	—0·71	—1
1907	47·18	49·08	—1·90	—4

* In this and the succeeding table no account is taken of the area represented by each station.

Similar data for India, excluding Burma, are given below :—

TABLE 132.

Year.	Annual Rainfall of India excluding Burma.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
1891	43·91	48·57	−4·66	−10
1892	46·99	46·03	+3·96	+9
1893	54·57	45·78	+8·79	+19
1894	53·80	45·97	+7·83	+17
1895	43·86	45·67	−2·81	−6
1896	39·39	45·02	−5·63	−13
1897	46·07	44·94	+1·13	+3
1898	45·96	45·02	+0·95	+2
1899	37·35	45·08	−7·73	−17
1900	44·85	45·32	−0·47	−1
1901	41·05	45·32	−4·27	−9
1902	44·02	44·89	−0·87	−2
1903	46·81	44·79	+2·02	+5
1904	40·81	44·77	−3·96	−9
1905	40·60	44·87	−4·27	−10
1906	45·42	45·08	+0·34	+1
1907	45·20	47·56	−2·26	−5

These data differ to some extent from those given in the following statement, which is based on the returns of about 400 stations selected by the late Mr. Blanford as representative of the rainfall conditions in India excluding Burma*

TABLE 133.

Year.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
1875	43·47	41·09	+2·38	+6
1876	36·69	41·09	−4·40	−11
1877	36·81	41·09	−4·28	−10
1878	47·43	41·09	+6·34	+15
1879	42·78	41·09	+1·69	+4
1880	39·53	41·09	−1·56	−4
1881	41·19	41·09	+0·10	0
1882	43·73	41·09	+2·64	+6
1883	40·97	41·09	−0·12	0
1884	42·82	41·09	+1·73	+4
1885	42·14	41·09	+1·05	+3
1886	44·11	41·09	+3·02	+7
1887	43·51	41·09	+2·42	+6
1888	39·55	41·09	−1·54	−4
1889	43·50	41·09	+2·41	+6
1890	41·77	41·09	+0·68	+2
1891	37·55	41·09	−3·54	−9
1892	46·18	41·09	+5·09	+12
1893	50·16	41·09	+9·07	+22
1894	47·56	41·09	+6·47	+16
1895	38·90	41·09	−2·19	−7
1896	36·26	41·09	−4·83	−12
1897	40·94	41·09	−0·15	0
1898	41·52	41·09	+0·43	+1
1899	29·95	41·09	−11·14	−27
1900	40·52	41·09	−0·57	−1
1901	36·96	41·09	−4·13	−10
1902	39·04	41·09	−2·05	−5
1903	43·06	41·09	+1·97	+5
1904	36·32	41·09	−4·77	−12
1905	35·52	41·09	−5·58	−14
1906	42·28	41·09	+1·19	+3
1907	37·87	41·09	−3·22	−8

*In the calculation of these averages allowance is made for the area represented by each station.

HEM RAJ.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 38 stations in India, etc., in the year 1907.

Table

Abstract of observations taken at 10 hrs. and 16 hrs. at

Number of sub-division.	Station.	Elevation of barometers above sea level, in feet.	Pressure.						Temperature of air.									
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to 32° F. and gravity at 45° Lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	I.—Burma.																	
2	Rangoon	36	29·863	29·768	·115	29·828	—·006	29·800	88·6	73·7	14·9	100·9	58·8	42·1	82·2	84·0	79·2	0
	III.—Bengal.																	
6	Calcutta	21	·837	·720	·117	·777	—·010	·744	87·6	70·6	17·0	103·3	48·2	55·1	81·5	85·4	78·6	+0·8
	IV.—United Provinces of Agra and Oudh.																	
10	Allahabad	309	·526	·410	·116	·463	—·013	·735	91·5	66·5	25·0	112·3	38·5	73·8	82·7	89·3	77·8	+0·5
11	Dehra Dun	2,233	27·608	27·523	·085	27·568	—·013	·754	82·1	60·2	21·9	103·4	38·6	64·8	73·8	78·1	70·2	+0·1
	V.—Punjab.																	
12	Lahore	702	29·116	29·027	·089	29·064	—·007	·736	89·1	62·8	26·3	114·8	32·9	81·9	78·6	87·0	74·8	+0·1
	VIII.—Rajputana.																	
19	Jaipur	1,431	28·438	28·335	·103	28·381	+·003	·762	90·7	65·5	25·2	111·7	39·1	72·6	81·7	88·1	77·0	—0·1
	Udaipur	1,925?	27·964	27·862	·102	27·910	...	·771	88·6	63·7	24·9	105·9	38·4	67·5	80·8	86·5	75·9	...
	IX.—Bombay.																	
28	Bombay	37	29·877	29·778	·099	29·827	—·001	·803	86·8	75·6	11·2	93·7	63·3	30·4	81·3	83·4	80·1	+0·9
	XI.—Central Provinces.																	
23	Buldana	2,132	27·783	27·667	·116	27·721	—·004	·771	89·0	67·7	20·3	105·0	49·2	55·8	80·7	86·0	76·8	+0·4
24	Nagpur	1,017	28·659	28·528	·131	28·702	+·012	·762	92·0	67·3	24·7	111·1	45·3	65·8	82·1	89·3	78·7	—0·9
	XII.—Hyderabad.																	
29	Hyderabad	1,690	·211	·090	·121	·151	+·005	·772	90·0	69·2	20·8	105·5	51·0	54·5	81·3	87·3	78·6	+0·1
	XIII.—Mysore.																	
30	Bangalore	3,021	26·949	26·836	·113	26·896	—·005	·790	84·6	64·0	20·6	96·9	48·9	47·7	76·7	81·3	73·0	+0·2
	Mysore	2,818	27·443	27·323	·120	27·387	—·004	·806	86·0	65·9	20·1	97·6	52·1	45·5	78·2	83·2	74·6	—0·1
	XIV.—Madras.																	
32	Periyakulam	944	28·930	28·823	·137	28·892	...	·765	91·2	69·9	21·3	99·4	51·6	47·8	82·9	87·3	80·4	...
	Pudukkottai	318	29·605	29·472	·133	29·539	...	·785	93·6	74·7	18·9	104·9	61·7	43·1	85·2	90·3	84·3	...
	Madras	22	·838	·774	·114	·835	—·007	·794	91·4	75·0	16·4	109·0	59·6	49·4	86·3	86·3	82·1	+0·4
	Stations in the Bay.																	
1	Port Blair	61	·861	·766	·095	·815	—·001	·807	86·1	76·6	9·5	93·9	68·3	25·6	83·0	83·5	80·2	—0·9
	Kashmir.																	
14	Srinagar	5,205	24·895	24·811	·084	24·859	—·007	24·821	66·8	43·5	23·1	91·8	15·6	76·2	55·3	64·4	53·4	+0·1
	Leh	11,503	19,700	19·609	·091	19·655	—·008	19·623	53·5	28·7	24·8	83·5	—5·1	88·6	44·1	49·9	39·5	—1·5
	Baluchistan.																	
16	Quetta	5,502	24·635	24·549	·076	24·579	—·009	24·539	73·3	44·5	29·3	98·7	16·0	80·7	65·5	70·6	58·9	+0·1

NOTE.—The barometric readings are not reduced to sea level in the cases of hill or plateau stations, the elevations of which exceed 3,200 feet.

A.

38 stations in India, etc., in the year 1907.

Temperature Wet-bulb.				Vapour tension in inches of mercury.					Humidity.					Cloud.				Rainfall.		Station.	Number of subdivisions.
Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Total rainfall for the year.	Heaviest rainfall during the year.		
30	31	32	33	34	35	36	37	38	39	40	41										
																				I.—Burma.	
71·7	75·4	75·5	73·9	·763	·799	·755	·789	—·006	90	73	65	81	—2	5·4	6·0	5·7	+0·3	100·28	3·81	Rangoon	
																				III.—Bengal.	
68·3	73·5	73·9	71·9	·689	·744	·704	·728	—·016	88	67	57	74	—3	4·2	4·6	4·4	—0·1	53·64	5·62	Calcutta	6
																				IV.—United Provinces of Agra and Oudh.	
61·3	67·4	68·4	65·7	·515	·495	·442	·496	—·072	75	44	33	54	—7	3·0	3·5	3·3	—0·3	27·16	3·02	Allahabad	10
55·5	62·4	63·8	60·6	·414	·453	·440	·445	—·023	75	53	46	61	—3	3·1	4·0	3·6	—0·4	45·21	2·94	Dehra Dun	11
																				V.—Punjab.	
58·0	65·6	68·2	63·9	·466	·493	·467	·485	—·005	76	50	38	57	+1	2·4	2·5	2·5	—0·4	15·05	1·54	Lahore	12
																				VIII.—Rajputana.	
57·5	64·9	65·9	62·8	·413	·431	·334	·417	—·049	61	30	29	46	—7	2·6	3·7	3·2	—0·5	18·47	3·43	Jaipur	19
57·9	65·8	68·3	64·0	·445	·474	·481	·471	...	70	44	39	52	...	2·4	2·9	2·7	...	18·22	2·05	Udaipur	
																				IX.—Bombay.	
71·3	74·2	75·7	73·7	·718	·765	·800	·778	+·014	80	71	69	76	—2	3·8	3·4	3·6	—0·2	100·78	10·02	Bombay	23
																				XI.—Central Provinces.	
58·7	65·1	65·7	63·1	·404	·441	·395	·415	—·047	58	43	34	48	—8	3·4	4·4	3·9	—0·3	26·97	1·58	Buldana	23
61·2	68·0	69·7	66·3	·491	·532	·498	·513	—·019	71	50	38	55	0	3·0	4·0	3·5	—1·0	48·25	3·82	Nagpur	24
																				XII.—Hyderabad.	
63·6	69·5	69·4	67·2	·530	·545	·502	·533	—·046	74	53	41	58	—4	3·9	4·7	4·3	+0·1	25·23	2·23	Hyderabad	23
																				XIII.—Mysore.	
61·8	67·1	66·9	65·5	·533	·557	·490	·536	—·006	80	61	47	63	—1	4·4	5·2	4·8	...	31·58	3·07	Bangalore	30
63·1	67·9	67·7	66·2	·551	·560	·492	·541	—·016	85	66	45	65	—1	5·9	6·4	6·2	0	25·67	1·82	Mysore	
																				XIV.—Madras.	
66·5	71·9	72·2	70·2	·616	·636	·591	·615	...	84	57	47	62	...	4·7	6·7	5·7	...	45·83	2·31	Periyakulam	22
70·6	74·0	74·4	72·9	·707	·693	·649	·683	...	84	58	47	63	...	6·0	6·7	6·4	...	23·67	2·60	Pudukkottai	
72·4	76·6	77·1	75·4	·769	·792	·814	·809	0	89	64	65	75	—1	4·5	4·6	4·6	—0·5	44·66	4·59	Madras	
																				Stations in the Bay.	
72·8	77·4	77·2	76·1	·793	·869	·852	·853	—·047	87	77	74	82	—2	6·4	7·0	6·7	+0·3	131·79	5·08	Port Blair	1
																				Kashmir.	
41·1	51·5	59·5	50·7	·257	·383	·506	·356	—·007	82	78	76	79*	—2	4·0	5·6	4·8	+0·3	28·00	2·59	Srinagar	14
24·9	34·0	36·6	31·8	·120	·128	·124	·132	—·003	68	44	35	51	0	4·5	5·5	5·0	—0·5	4·27	0·42	Leh	
																				Baluchistan.	
40·4	49·5	51·2	47·0	·234	·212	·192	·213	—·033	74	34	28	47	—5	1·7	3·6	2·2	—0·2	8·78	1·18	Quetta	13

*Mean of three previous columns.

Table

Abstract of observations taken at 10 hrs. and 16 hrs. at

Number of sub-division.	Station.	Elevation of bar-cistern above sea-level, in feet.	Pressure.						Temperature of air.									
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressure.	Departure from normal.	Mean reduced to S. L. and gravity of 45° Lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	Hill Stations excluding Kashmir and Baluchistan.																	
	Simla	7,224	23·104	23·050	·048	23·073	−·019	23·035	60·8	49·5	11·3	81·2	25·4	55·8	59·3	57·2	54·0	−0·3
	Sanain	...	·155	·097	·058	·117	...	...	62·4	42·4	20·0	83·2	20·9	62·3	56·2	56·7	53·1	...
	Kalabagh	...	29·145	29·109	·036	29·131	...	...	53·8	40·1	12·2	71·4	21·9	49·5	47·4	48·0	45·8	...
	Chakrata	7,022	23·283	23·236	·046	23·250	−·001	·210	64·8	48·7	16·1	83·8	26·5	57·3	59·3	58·7	56·5	−0·2
	Muktesar	7,556	23·871	23·810	·061	23·833	...	23·791	69·5	(a) 49·5	14·0	80·5	25·7	54·8	56·8	59·1	(a) 56·7	...
	Katmandu	4,388	25·644	25·538	·106	25·588	+·023†	25·542	75·9	53·2	22·7	90·6	28·2	62·4	66·3	71·6	64·3	−0·3†
	Darjeeling	7,376	23·003	22·964	·038	22·978	−·012	22·935	59·2	47·8	11·9	71·8	32·0	39·8	55·3	57·2	53·1	+0·4
	Pachmarhi	3,528	26·449	26·389	·060	26·399	+·001	26·346	80·5	(a) 60·4	20·1	97·6	37·1	60·5	73·3	78·0	(a) 70·3	(a) −0·5
	Mount Abu	3,945	·046	25·975	·071	·006	−·003	25·956	75·1	51·7	13·4	91·4	45·4	46·0	70·5	72·6	68·1	−0·7
	Chikalda	3,642	·340	26·246	·094	·289	−·008	26·238	80·7	63·1	17·6	97·3	48·7	48·6	73·6	78·0	71·6	0
	Ootacamund	7,322	23·067	22·998	·069	23·029	...	22·985	65·0	49·1	15·9	72·7	32·1	40·6	61·6	60·3	56·8	...
	Kodaikanal	7,688	22·844	·774	·070	22·809	...	·744	64·5	50·9	13·7	74·7	40·3	33·9	60·6	58·9	57·5	...
	Dodabetta	8,539†	·055	21·969	·062	·023	...	21·960	58·2	47·8	10·4	68·4	33·2	35·2	55·7	54·9	52·9	...
	Extra India.																	
	Minicoy	7	29·963	29·891	·072	29·932	...	(c) 29·863	(c) 87·1	...	...	93·6	...	...	(c) 84·5	(c) 84·2	...	...
	Zanzibar	73	30·008	·889	·114	·951	−·001	·949	84·0	76·3	7·7	92·0	70·9	21·1	80·2	83·2	79·8	+0·1
	Diego Garcia (d)	...	29·953	·870	·082	·912	...	...	83·4	74·1	7·3	86·0	71·4	14·6	80·2	80·4	79·9	...
	Seychelles	15	·985	·898	·087	·942	+·004†	·887	82·7	76·3	6·4	87·7	70·2	17·5	80·7	81·6	78·5	+0·5†
	Mauritius	181	...	...	...	·832	−·009	30·011	...	...	...	90·3	49·9	40·4	...	...	73·1	−0·3

N.B.—Elevations in italics indicate barometric determinations.
NOTE.—The barometric readings are not reduced to sea-level in the cases of hill or plateau stations, the elevations of which exceed 3,200 feet.
* Mean of 7 months.
(a) Mean of 11 months.
(d) Mean of 5 months.

A.

38 stations in India, etc., in the year 1907—concld.

Temperature. Wet-bulb.				Vapour tension in inches of mercury.					Humidity.					Cloud.				Rainfall.		Station.	Number of sub-divisions.
Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Total rainfall for the year.	Heaviest rainfall during the year.		
20	21	22	23	24	25	26	27	28	29	30	31	33	33	34	35	36	37	38	39	40	41
																				Hill Stations excluding Kashmir and Baluchistan.	
43·0	47·2	48·6	46·3	·230	·249	·268	·250	—·033	62	53	54	57	—4	4·0	5·2	4·6	—0·4	48·24	2·64	Simla	
...	46·4	47·3	...	...	·236	·251	...	...	...	51	53	...	...	3·8	4·9	4·4	...	48·01	3·32	Sanain	
...	40·8	41·2	...	...	·211	·215	...	...	...	69	60	...	...	4·4	5·1	4·8	...	30·84	4·88	Kalabagh*	
44·0	51·1	51·1	48·7	·257	·312	·319	·297	0	71	59	62	66	+1	3·8	4·9	4·4	—0·3	52·59	5·09	Chakrata	
43·0	48·5	50·7	47·4	(a) ·251	·275	·305	(a) ·288	...	(a) 63	57	58	(a) 64	...	4·4	5·3	4·9	...	42·31	6·28	Muktesar	
51·3	59·4	61·6	57·5	·389	·457	·454	·433	—·016	87	57	59	72	—1	3·5	4·6	4·1	—0·5	54·79	3·23	Katmandu	
45·4	52·7	54·8	51·0	·301	·390	·422	·370	—·017	87	85	86	87	+1	6·6	7·1	6·9	+0·2	87·60	3·97	Darjeeling	
53·5	61·1	62·7	59·1	(a) ·374	·428	·435	(a) ·403	(a) —·010	(a) 62	49	44	(a) 56	(a) —3	2·8	3·1	3·0	—1·4	57·78	6·10	Pachmarhi	
54·8	58·8	60·6	58·0	·395	·472	·478	·381	+·010	64	51	50	58	+4	3·1	3·3	3·2	—0·4	79·02	16·53	Mount Abu	
56·7	61·5	63·3	...	·443	·516	·522	·415	—·016	68	52	47	58	—2	3·6	4·1	3·9	—0·4	54·00	4·24	Chikalda	
46·2	53·6	...	...	·316	·388	·380	·338	...	81	62	70	71	...	5·3	7·0	6·2	...	53·25	2·07	Cotacamund	
46·8	53·7	55·2	51·9	·325	·387	·388	·340	...	75	67	78	73	...	5·1	7·3	6·2	...	48·46	3·63	Kodaikanal	
(b) 44·7	(b) 52·1	(b) 53·7	(b) 49·5	(b) ·287	·306	·329	(b) ·289	...	(b) 78	71	77	(b) 69	...	5·9	7·5	6·7	...	46·77	2·77	Dodabetta	
																				Extra India.	
...	(c) 78·0	(c) 77·7	...	...	(c) ·874	(c) ·863	...	...	...	(c) 74	(c) 74	...	...	4·9	5·8	5·3	...	57·41	5·20	Minicoy	
71·9	75·1	75·0	74·0	·739	·809	·764	·702	—·024	80	78	67	77	—3	5·9	4·7	5·3	+0·2	42·04	2·35	Zanzibar	
...	75·4	75·4	...	...	·816	·814	...	...	...	79	78	..	...	5·3	5·3	5·3	...	41·52	4·59	Diego Garcia (d)	
71·5	75·4	75·6	74·2	·708	·819	·814	·797	—·015	76	77	76	79	—2	5·7	6·0	5·9	—0·4†	81·03	6·43	Seychelles	
...	...	...	68·0	...	...	...	·611	—·012	...	...	...	74	—1	...	...	6·3	+0·6	44·44	3·38	Mauritius	

† Departures from old normals.
* Mean of 7 months.
(a) Mean of 11 months.
(b) " 6 "
(c) " 10 "
(d) " 5 "

Table B.—Abstract of observations taken at 8 hrs. at 239 stations in India, etc., in the year 1907.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,500 stations.

Division.	Pressure departure from normal of year.	Temperature of air.								Wind.	Hygrometry.				Cloud.		Rainfall.		
		Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Absolute range during year.	Departure of velocity from normal	Mean humidity of year.	Departure from normal of year.	Mean vapour tension of year.	Departure from normal of year.	Mean cloud amount of year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.
	"	°	°	°	°	°	°	°	°	"			"	"			"	"	"
Burma	—·008	88·0	—0·7	70·6	+0·6	79·3	0	17·4	49·1	—0·1	84	+ 1	·746	+ ·005	4·8	0	81·16	78·00	+ 3·16
Eastern Bengal and Assam	—·003	84·7	—0·2	67·4	—0·4	76·2	—0·3	17·3	51·2	—0·5	87	— 1	·715	— ·014	4·4	—0·5	86·19	92·53	— 6·34
Bengal	—·004	88·1	—0·3	68·5	—0·5	78·3	—0·4	19·4	61·8	—0·2	77	0	·677	— ·017	3·6	—0·2	50·54	54·48	— 3·94
United Provinces of Agra and Oudh	0	89·2	+0·6	65·2	—0·5	77·2	+0·1	24·1	72·3	—0·3	65	— 4	·539	— ·035	2·5	—0·6	25·77	39·48	—13·71
Punjab	+·005	88·1	—1·0	62·9	—0·2	75·6	—0·6	25·1	80·9	+0·3	62	— 1	·478	— ·022	2·2	—0·5	18·92	20·85	— 1·93
North-West Frontier Province	—·005	87·0	—1·1	66·5	—0·4	73·8	—0·8	26·5	86·0	—0·9	64	0	·465	— ·023	2·7	+0·1	18·51	16·35	+ 2·16
Sind	+·007	92·0	—0·1	68·0	+0·2	80·1	+0·1	24·0	73·0	—2·0	64	+ 2	·584	+ ·013	2·7	0	7·90	6·63	+ 1·27
Rajputana	+·006	90·8	—0·5	66·3	—0·3	78·6	—0·4	24·5	71·4	+0·7	57	+ 1	·487	+ ·003	2·4	—0·7	19·89	21·42	— 1·53
Bombay	+·004	89·4	+0·2	69·3	0	79·4	+0·1	20·1	52·6	—0·7	68	— 1	·630	— ·013	3·4	—0·1	45·73	47·29	— 1·42
Central India	+·004	89·0	+0·3	64·9	0	76·9	+0·1	24·2	68·3	—0·3	59	— 3	·492	— ·031	3·8	+0·8	28·43	38·17	— 9·74
Central Provinces	+·007	90·1	0	66·2	—1·0	78·2	—0·5	24·1	65·6	+0·4	59	— 3	·503	— ·033	3·2	—0·3	37·20	42·03	— 4·83
Hyderabad	+·002	90·8	—0·1	69·1	+0·1	80·0	0	21·7	56·8	—0·9	62	— 2	·563	— ·017	3·5	—0·2	27·58	32·48	— 4·90
Mysore	—·001	85·2	+0·2	64·8	+0·1	75·0	+0·2	20·3	46·6	—0·7	76	+ 1	·569	+ ·005	5·0	—0·2	36·23	34·56	+ 1·67
Madras	+ 001	90·5	—0·1	74·1	+0·3	82·3	+0·1	16·4	43·1	+0·7	76	0	·759	+ ·001	4·6	0	43·91	44·18	— 0·27

Table

(2) Abstract of observations taken at 8 hrs. at

Number of sub-division.	Station.	Elevation of bar. cistern above sea-level, in feet.	Pressure, 8 hrs. in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	I.—Burma.																				
2	Mergui	119	29·815	+·002	29·867	29·960	29·582	·378	·156	78·3	87·0	−0·6	73·1	+1·9	80·1	+0·7	13·9	95·4	59·9	35·5	21·8
	Tavoy	19	29·931	+·008	29·852	30·083	29·753	·330	·167	75·1	87·2	−0·7	71·8	+0·7	79·5	0	15·4	99·0	53·8	45·2	24·7
	Moulmein	94	29·834	+·010	29·866	30·023	29·485	·538	·192	76·0	87·4	−0·7	72·7	+0·4	80·1	−0·2	14·7	99·0	53·8	45·2	24·6
	Rangoon	36	29·879	−·008	29·845	30·009	29·651	·418	·169	76·7	88·7	−0·9	73·8	+1·0	81·2	+0·1	14·9	101·1	58·9	42·2	23·3
	Bassein	27	29·876	+·002	29·844	30·000	29·638	·453	·190	76·4	88·1		72·8	+0·7	80·5	+0·4	15·3	99·2	55·4	43·8	24·1
	Diamond Island	41	29·857	−·010	29·833	30·047	29·647	·400	·181	80·4	85·0	−0·9	76·3	+1·0	80·6	+0·2	8·7	90·4	65·2	25·2	15·7
	Toungoo	183	29·720	+·003	29·847	29·923	29·500	·423	·200	75·5	89·3	−1·0	71·4	−0·7	80·4	−0·1	17·9	103·4	51·6	51·8	28·9
	Kyaukpyu	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Akyab	20	29·854	−·018	29·818	30·078	29·511	·567	·211	74·9	85·2	−1·0	72·8	+0·1	78·9	−0·5	12·9	94·9	53·1	38·8	22·0
3	Thayetmyo	121	29·776	+·007	29·840	30·010	29·516	·494	·200	77·1	92·0	+0·2	70·3	+0·7	81·2	+0·5	21·7	108·5	47·9	60·6	32·5
	Minbu	163	29·708	−·016	29·819	29·976	29·459	·517	·198	76·2	91·7	−0·6	61·4	+0·8	81·3	+0·1	19·8	107·1	52·1	55·0	31·2
	Yamethin	657	29·218	−·013	29·836	29·435	28·979	·456	·185	74·9	90·2	−2·0	69·5	+0·1	79·9	−1·0	20·7	102·3	50·0	52·3	30·4
	Mandalay	290	29·029	0	29·832	29·899	29·367	·532	·203	77·2	93·5	+1·1	72·2	+1·0	83·8	+1·1	21·3	108·1	51·3	56·8	32·6
	Monywa	290	29·031	...	29·840	29·893	29·332	·561	·212	75·8	92·2	...	71·5	...	81·8	...	20·7	102·8	53·6	54·2	31·8
	Lashio	2,751	27·069	−·024	27·039	27·331	26·850	·481	·200	65·4	81·2	−1·4	60·3	+0·3	70·8	−0·6	20·9	94·8	39·8	55·0	32·6
	Bhamo	381	29·513	+·013	29·859	29·795	29·230	·565	·230	69·1	85·0	−1·6	64·6	−0·6	74·8	−1·1	20·4	100·9	43·4	57·5	32·5
	Myitkyina	458	29·410	...	29·837	29·888	29·113	·575	·243	70·7	84·5	...	65·7	...	75·1	...	18·8	102·7	45·1	57·6	31·4
	II.—Eastern Bengal and Assam.																				
4	Dibrugarh	358	29·525	...	29·849	29·841	29·176	·663	·257	67·7	80·5	...	54·6	...	72·6	...	15·9	97·4	42·9	54·5	31·1
	Sibsagar	333	29·571	+·003	29·871	29·900	29·225	·684	·260	69·0	80·4	−1·4	65·0	−0·9	75·2	−1·1	15·5	95·6	43·2	52·4	30·1
	Tezpur	253	29·654	..	29·841	29·931	29·271	·660	·247	69·5	82·9	...	66·7	...	74·8	...	16·3	95·1	46·9	48·2	29·1
	Gauhati	195	29·689	...	29·846	29·967	29·323	·644	·243	69·8	84·3	...	65·5	...	75·0	...	18·8	96·5	45·1	51·4	28·7
	Dhubri	115	29·743	−·009	29·817	30·041	29·381	·660	·246	70·8	82·4	−0·5	67·5	−0·7	75·0	−0·6	14·9	94·2	49·8	44·4	25·2
	Silchar	104	29·782	−·006	29·842	30·037	29·388	·649	·236	72·0	85·8	−0·5	67·1	−0·4	76·5	−0·5	18·7	98·1	46·3	51·8	30·5
5	Cox's Bazar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chittagong	87	29·789	−·003	29·826	30·038	29·326	·712	·241	74·0	85·4	+0·6	68·8	−0·7	77·1	0	16·6	94·6	49·4	45·2	25·8
	Noakhali	43	29·820	...	29·810	30·074	29·344	·730	·239	74·4	83·9	...	69·0	...	76·5	...	14·9	90·3	47·9	42·4	25·2
	Barisal	12	29·846	−·001	29·804	30·115	29·237	·878	·260	76·5	86·3	+0·2	70·1	−0·3	78·2	−0·1	16·1	97·3	48·1	49·2	27·1
	Comilla	36	29·833	...	29·817	30·088	29·380	·708	·241	74·3	86·7	...	68·4	...	77·6	...	18·3	96·9	47·3	49·6	28·3
	Narayanganj	26	29·834	+·001	29·808	30·107	29·363	·744	·263	74·3	86·1	−0·3	70·0	−0·6	78·1	−0·5	16·2	96·0	49·8	46·2	26·9
	Faridpur	46	29·812	...	29·808	30·093	29·343	·750	·247	74·2	86·0	...	68·1	...	77·0	...	17·9	98·8	46·9	51·9	28·9
	Sirajganj	49	29·813	...	29·813	30·094	29·390	·704	·240	72·5	85·6	...	68·3	...	77·0	...	17·3	102·3	47·4	54·9	29·0
	Mymensingh	63	29·807	0	29·822	30·085	29·405	·680	·238	73·8	85·2	+0·9	68·5	+0·1	176·9	+0·5	16·7	98·2	49·0	49·2	27·5
	Bogra	75	29·776	−·003	29·803	30·072	29·378	·694	·239	73·2	86·5	+0·1	67·8	−0·3	77·2	−0·1	18·7	104·3	46·2	58·1	31·4
	Rampur Boalia	70	29·777	...	29·798	30·068	29·276	·810	·267	74·4	87·0	...	66·9	...	76·9	...	20·1	104·0	45·1	58·9	33·7
	Malda	72	29·760	...	29·786	30·077	29·305	·772	·251	73·9	85·5	...	66·5	...	76·0	...	19·0	104·3	44·5	59·8	32·3
	Dinajpur	123	29·723	−·002	29·765	30·035	29·346	·689	·240	71·7	85·6	−0·5	58·0	−1·2	75·8	−0·9	19·6	103·3	41·9	61·4	32·5

N. B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level, in the cases of hill or plateau stations, the elevations of which exceed 3,200 feet.

B.—*contd.*

239 stations in India, etc, in the year 1907.

Wind direction. Number of winds from Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Cloud. Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Rainfall. Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	Station.
23	24	25	26	27	28	29	30	31	33	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									I.—Burma.
194	33	29	5	21	39	14	22	7	1·7	1·9	−0·2	87	+2	·833	+·017	3·4	−1·9	162	154·20	+7·80	156·72	168·37	−11·65	5·90	Mergui (a).
356	1	...	...	...	1	6	1	...	1·5	1·5	0	89	+2	·792	−·009	5·1	0	159	147·30	+11·70	261·91	209·38	+52·53	7·62	Tavoy.
218	17	25	13	30	27	21	9	5	2·5	3·1	−0·6	89	+2	·813	+·013	6·0	+1·1	150	140·60	+9·40	230·79	183·92	+46·87	21·82	Moulmein.
41	44	69	28	8	53	64	46	12	4·8	4·3	+0·5	86	−3	·803	−·002	5·4	+0·4	132	123·10	+8·90	100·28	96·78	+3·50	3·81	Rangoon.
105	23	33	12	21	53	50	32	36	*5·3	4·4	+0·9	89	+1	·873	+·006	4·7	−0·2	126	126·50	−0·50	123·27	112·00	+11·27	4·23	Bassein (a).
11	39	67	28	15	7	95	21	63	8·5	9·7	−0·2	82	+3	·856	+·039	5·1	−0·3	118	120·44	−2·44	130·24	116·08	+14·16	3·41	Diamond Island.
186	9	1	4	103	32	8	...	22	2·6	3·3	−0·7	89	+3	·804	+·026	5·5	+0·3	135	113·60	+21·40	113·03	79·11	+33·91	4·04	Toungoo.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kyaukpyu.
29	69	107	64	32	40	15	3	6	4·1	3·2	+0·9	91	+3	·804	−·001	4·7	−0·4	126	118·70	+7·30	211·25	189·20	+22·05	9·25	Akyab.
51	34	17	2	44	97	58	18	44	6·4	5·1	+1·3	75	−1	·710	+·002	4·3	+0·1	59	72·50	−13·50	27·98	36·72	−8·74	2·82	Thayetmyo.
30	17	1	2	127	26	41	14	107	7·2*	8·7	−1·5	75	0	·700	−·002	4·0	+0·6	50	56·50	−0·50	24·96	31·86	−6·90	1·41	Minbu.
219	36	3	1	51	30	1	...	24	3·8	5·7	−1·9	79	+1	·703	0	5·3	+2·6	61	61·20	−0·20	40·59	37·56	+3·03	3·70	Yamethin.
130	23	5	8	53	115	15	5	10	5·7	5·0	+0·7	74	−1	·699	−·011	3·1	−2·3	57	47·50	+9·50	31·34	32·36	−1·02	2·09	Mandalay (a).
62	6	1	...	32	60	39	37	108	3·0	...	...	76	...	·701	...	3·9	...	41	44·60	−3·60	21·43	18·40	−6·97	2·10	Monywa.
207	13	35	25	6	18	42	4	15	3·4	...	...	86	0	·556	−·005	5·9	−0·8	97	...	...	59·28	61·28	−2·00	4·06	Lashio.
306	2	49	1	2	...	5	...	...	1·3	2·4	−1·1	89	+2	·671	−·003	5·4	+0·3	96	99·80	−3·80	71·02	73·38	−2·36	3·29	Bhamo.
374	7	32	41	7	3	1	...	...	6·1	...	...	87	...	·676	...	6·5	...	92	...	...	70·25	74·84	−4·59	5·57	Myitkyina.
																									II.—Eastern Bengal and Assam.
327	1	18	15	...	1	3	...	...	0·4	...	...	93	...	·659	...	6·9	...	136	131·80	+4·20	99·21	114·99	−15·78	6·20	Dibrugarh.
118	35	63	6	2	12	50	16	64	2·1	2·4	−0·3	92	−3	·682	−·029	5·7	−1·4	133	125·00	+8·00	90·04	96·21	−6·17	3·85	Sibsagar.
312	15	60	73	2	...	1	2	...	3·3	...	...	90	...	·675	...	4·9	...	110	103·90	+6·10	66·92	71·66	−4·74	3·11	Tezpur.
168	47	53	13	24	23	18	7	13	2·5	...	...	91	...	·697	...	5·0	...	95	91·50	+3·50	71·91	63·39	+8·52	3·45	Gauhati.
26	11	47	205	19	34	13	7	3	6·8	5·2	+1·6	90	+3	·707	+·009	5·1	+0·2	104	92·50	+11·50	95·64	93·28	+2·36	7·60	Dhubri.
365	...	...	...	...	...	...	...	...	0·5	2·4	−1·9	86	−2	·705	−·022	3·9	−2·5	148	136·30	+11·20	134·81	124·86	+9·95	6·62	Silchar.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Cox's Bazar.
13	43	90	21	151	16	12	2	20	5·2	4·9	+0·3	86	−1	·743	−·021	4·1	−0·9	92	96·42	−4·42	63·18	96·52	−33·34	5·21	Chittagong.
126	24	38	61	57	38	20	7	6	4·1	...	...	87	...	·757	...	3·4	...	118	109·36	+8·64	111·05	113·68	−2·62	7·16	Noakhali.
105	27	34	17	37	71	45	8	20	2·1	3·2	−1·1	85	−1	·795	−·006	3·0	−1·8	101	97·90	+3·10	70·25	77·60	−7·35	4·76	Barisal (a).
145	10	8	23	69	105	3	...	2	3·3	...	...	88	...	·753	...	3·0	...	98	100·25	−2·25	70·23	90·24	−20·01	4·25	Comilla.
75	7	21	65	63	47	44	7	35	3·9	4·9	−1·0	86	0	·753	−·025	5·0	−0·3	78	94·08	−16·08	61·51	69·60	−8·09	2·35	Narayanganj (b).
102	45	...	32	64	99	9	4	10	3·1	...	...	88	...	·757	...	3·5	...	91	89·40	+1·60	72·04	68·56	+3·48	5·31	Faridpur.
249	4	3	41	29	23	12	3	1	2·8	...	...	87	...	·725	...	4·4	...	79	78·66	+0·34	54·75	61·38	−6·63	3·85	Sirajganj.
120	7	17	106	72	25	8	4	6	2·3	2·7	−0·5	85	−3	·733	−·006	6·6	+1·8	96	104·22	−9·22	64·18	87·55	−23·37	2·80	Mymensingh.
236	4	39	64	6	2	10	...	4	1·9	3·0	−1·1	81	−2	·697	−·033	4·1	+0·1	85	81·84	−16·84	49·99	67·14	−17·15	4·76	Bogra.
312	3	1	3	12	13	18	3	1	3·2	...	...	81	...	·719	...	3·5	...	70	75·14	−5·14	37·31	57·62	−20·31	1·92	Rampur Boalia.
54	29	61	53	53	33	31	11	40	4·9	...	...	83	...	·707	...	2·2	...	66	69·20	−3·20	50·26	54·18	−3·92	6·86	Malda.
75	20	77	90	36	15	15	18	11	3·5	3·6	−0·1	86	+3	·706	+·012	4·5	+0·3	82	77·09	+4·91	64·83	70·99	−6·16	5·75	Dinajpur (b).

S-Uncorrected.

* Mean of 11 months.

(a) Wind direction of 366 days.
(b) " " 363 "

Table

(2) Abstract of observations taken at 8 hrs. at

Number of sub-division.	Station.	Elevation of bar. cistern above sea-level, in feet.	Pressure, 8 hrs., in Inches.						Temperature of air.										
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and constant gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean between max. and min.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	II.—Eastern Bengal and Assam—*concld.*																				
8	Rangpur	173	29·743	...	30·023	30·094	29·881	·643	·240	72·4	86·6	...	57·2	...	75·9	...	17·4	97·6	44·6	53·0	23·9
	Jalpaiguri	284	29·679	+·001	30·038	29·976	29·737	·639	·236	70·2	83·6	−0·1	56·6	+0·7	75·1	+0·3	17·0	93·9	46·6	47·3	23·0
	Cooch Behar	156	29·718	...	29·834	30·031	29·364	·667	·250	70·7	83·8	...	56·5	...	75·2	...	17·3	94·4	48·6	46·3	27·7
	III.—Bengal.																				
6	Saugor Island	16	29·817	−·008	29·786	30·121	29·193	·929	·278	77·5	86·4	+0·9	73·5	−0·2	80·0	+0·4	12·9	96·9	53·4	43·5	24·3
	Midnapore	149	29·686	...	29·785	29·994	29·239	·755	·252	75·4	90·1	...	70·1	...	80·1	...	20·0	108·4	49·6	59·8	33·4
	Calcutta	21	29·824	−·007	29·791	30·133	29·135	·998	·279	75·3	87·7	+1·1	70·6	0	79·2	+0·6	17·1	103·1	49·2	54·9	29·2
	Jessore	33	29·816	−·005	29·786	30·129	29·279	·850	·251	75·3	88·7	−1·0	69·1	−0·8	77·9	−0·9	17·6	102·5	46·2	56·3	30·3
	Krishnagar	47	29·790	...	29·787	30·093	29·130	·963	·271	73·5	88·3	...	58·5	...	73·5	...	19·8	104·6	46·0	58·6	32·6
	Burdwan	99	29·741	−·011	29·791	30·049	29·863	1·186	·269	74·4	88·8	−0·2	70·2	−0·4	79·5	−0·3	18·6	104·4	50·3	54·1	30·1
	Bankura	313	29·513	...	29·783	29·938	28·748	1·080	·274	74·9	99·6	...	60·8	...	79·7	...	19·8	113·1	48·7	64·4	33·0
	Bapiganj	334	29·510	...	29·806	29·936	28·791	1·035	·269	72·4	88·7	...	56·4	...	72·5	...	20·3	111·5	47·0	64·5	33·8
	Berhampore	67	29·777	−·008	29·795	30·094	29·209	·885	·263	73·7	87·9	+0·2	59·0	−0·6	73·5	−0·2	18·9	103·3	48·2	57·1	30·4
	Naya Dumka	489	29·549	...	29·807	29·960	29·051	1·009	·263	73·5	87·4	...	57·1	...	77·2	...	20·3	110·4	44·0	66·4	33·7
7	Balasore	50	29·797	−·004	29·791	30·109	29·263	·826	·265	75·7	88·2	+0·1	70·2	+0·3	79·7	+0·2	18·0	108·0	49·0	60·0	30·5
	False Point	21	29·836	+·001	29·799	30·129	29·373	·756	·253	77·0	85·7	−0·2	71·1	−1·0	78·4	−0·6	14·6	99·1	46·6	40·5	25·9
	Cuttack	60	29·773	+·003	29·796	30·062	29·344	·743	·247	76·0	90·3	−1·1	25·0	−0·5	82·2	−0·8	18·3	105·3	51·2	54·2	29·8
8	Puri	24	29·840	...	29·803	30·138	29·432	·706	·245	78·2	86·3	...	74·2	..	80·3	...	12·0	96·6	54·6	42·0	21·8
	Angul	455	29·391	...	29·814	29·989	28·979	·210	·237	74·5	89·8	...	59·1	...	79·4	...	20·7	111·3	47·1	64·1	33·5
	Sambálpur	486	29·364	−·004	29·805	29·703	28·919	·784	·253	75·0	89·7	+1·3	59·1	−0·9	79·4	−1·1	20·6	111·6	46·2	65·4	33·7
9	Chaibasa	738	29·074*	+·003	29·772*	29·987	28·613	·774	·243	71·8	89·9	−0·6	57·1*	−0·9	*78·3	−0·8	*22·1	113·6	45·2	68·5	34·5
	Ranchi	2,139	27·709	+·004	29·613	29·983	27·296	·686	·238	71·0	83·8	−0·7	55·4	+0·2	74·6	−0·3	18·4	105·3	45·4	59·8	31·3
	Purulia	516	29·004	...	29·787	29·908	28·446	·862	·247	71·4	89·2	...	57·9	...	78·6	...	21·2	113·8	42·6	66·2	34·9
	Hazaribagh	1,993	27·930	−·005	29·799	29·986	27·393	·693	·222	72·8	84·1	−0·5	55·6	+0·1	74·7	−0·3	18·2	105·6	44·3	61·3	31·2
	Daltonganj	730	29·096	...	29·803	29·947	28·666	·781	·246	69·3	89·3	...	54·2	...	76·8	...	25·1	112·1	37·0	75·1	39·5
9	Purnea	133	29·752	−·003	29·808	30·050	29·341	·709	·249	70·5	86·0	−0·7	55·0	−1·3	75·5	−1·0	21·0	103·2	41·7	61·6	33·7
	Bhagalpur	160	29·688	...	29·804	30·032	29·197	·835	·254	75·4	87·2	...	57·0	...	77·2	...	20·2	108·2	43·3	64·9	33·1
	Monghyr†	155	29·6787	...	29·7267	30·021	29·279	·742	·233	73·0	89·4	...	71·6	...	80·5	...	17·8	106·9	47·9	59·0	29·3
	Darbhanga	165	29·677	0	29·803	30·013	29·316	·696	·241	71·3	86·2	+0·4	56·5	+2·1	76·4	+0·9	19·7	106·6	43·8	61·8	31·9
	Pusa	166	29·650*	...	...	29·959	29·305	·654	·241	71·5	†99·6	...	60·0	...	†79·8	...	†19·7	107·2	43·5	63·7	†32·3
	Muzaffarpur	178	29·665	...	29·805	30·006	29·294	·712	·240	73·6	86·3	...	56·5	...	76·4	...	19·8	107·2	43·0	65·3	32·5
	Motihari	234	29·613	...	29·803	29·940	29·259	·681	·241	69·4	86·7	...	55·0	...	76·9	...	21·7	106·9	39·8	66·1	34·4
	Chapra	191	29·651	...	29·791	30·006	29·278	·728	·232	†74·5	†90·8	...	†58·2	...	†79·6	...	†23·6	106·4	43·6	61·8	31·3
	Patna	183	29·662	−·009	29·793	30·011	29·295	·716	·229	74·3	87·1	−0·6	58·7	+0·2	72·9	−0·2	18·4	102·6	44·7	62·3	31·3
	Arrah	190	29·651	...	29·798	30·008	29·305	·703	·237	73·7	89·2	...	58·8	...	77·8	...	21·4	109·9	41·3	68·7	34·9
	Buxar	239	29·586	...	29·795	29·925	29·196	·729	·233	73·0	89·4	...	57·7	...	78·5	...	21·7	110·0	43·1	66·9	36·1

N.B.—Elevations in italics indicate barometrical determinations.
Mem.—The barometric readings are not reduced to sea-level, in the cases of hill or plateau stations, the elevations of which exceed 2,000 feet.
* Mean of 11 months.
† Mean of 9 months.

B.—*contd.*

239 stations in India, etc., in the year 1907.

Wind direction. Number of winds from									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.						Station.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity, miles per hour.	Normal.	Departure from normal.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during 24 hours of year.	
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									II.—Eastern Bengal and Assam—*contd.*
171	6	59	66	39	19	7	10	6	1·8	...	...	85	...	·712	...	2·9	...	75	61·61	−6·61	76·33	84·03	−7·70	4·93	Rangpur (*b*).
165	21	61	64	30	4	5	3	12	2·3	...	...	87	+1	·674	−·013	3·7	−0·1	113	99·26	+13·74	132·93	123·30	+0·37	9·03	Jalpaiguri.
180	2	31	125	17	4	6	...	...	1·7	..	...	85	...	·666	...	4·7	...	108	100·59	+7·41	191·60	128·63	+62·97	6·21	Cooch Behár.
																									III.—Bengal.
1	69	66	16	11	70	70	26	25	13·1 (*g*)	11·7	+1·4	86	0	·825	−·008	4·9	−0·8	70	81·96	−11·96	68·02	72·33	−4·31	5·47	Sangor Island.
46	107	25	8	10	111	23	6	28	3·6	...	...	74	...	·681	...	3·0	...	80	78·22	+1·78	57·37	61·26	+3·89	9·55	Midnapore (*a*).
47	23	27	37	51	39	90	11	50	4·8 (*g*)	4·4	+0·4	83	0	·769	+·001	4·4	+0·2	77	85·54	−8·54	53·64	59·55	−5·91	6·62	Calcutta.
239	13	9	13	50	33	8	2	3	1·5	3·0	−1·5	84	−2	·766	−·025	4·7	0	92	88·45	+3·55	64·02	64·02	0	5·67	Jessore.
72	32	13	29	48	66	26	29	49	3·0	...	...	86	...	·741	...	3·4	...	73	74·20	−1·20	47·99	55·12	−7·13	2·68	Krishnagar (*a*).
133	43	25	26	12	35	50	23	28	2·4	3·1	−0·7	80	+4	·714	+·006	4·4	−0·1	70	77·88	−7·88	44·23	57·06	−12·83	3·14	Bardwan.
234	5	14	16	15	13	23	39	14	3·0	...	...	71	...	·641	...	2·9	...	65	77·37	−12·37	54·65	59·43	−4·78	6·51	Bankura.
309	3	5	4	6	2	4	9	18	1·2 (*h*)	...	...	73	...	·663	...	3·3	...	72	72·95	−0·95	47·86	56·12	−8·27	4·15	Raniganj.
99	25	23	47	31	31	36	6	15	3·0	3·2	−0·2	82	−3	·715	−·028	4·4	−0·3	64	77·22	−13·22	36·58	55·13	−18·55	2·02	Berhampore.
296	3	4	29	21	5	4	1	2	2·0	...	...	75	...	·672	...	2·6	...	75	79·60	−4·60	46·24	58·65	−12·41	3·52	Naya Dumka.
32	71	19	7	2	30	110	13	81	3·7	4·8	−1·1	77	−5	·706	−·070	4·0	−0·9	73	81·12	−8·12	46·45	64·68	−18·23	2·63	Balasore.
28	45	13	4	3	25	107	69	71	8·4 (*g*)	9·3	−0·9	84	−1	·798	−·029	4·8	−0·4	67	73·74	−6·74	56·64	65·69	−9·05	4·60	False Point.
135	8	25	21	5	21	75	57	18	2·5	2·8	−0·3	81	+3	·750	+·011	4·4	+0·1	76	75·61	+0·39	70·29	59·70	+10·59	8·33	Cuttack
24	118	19	2	5	16	130	32	19	12·5	...	...	80	...	·804	...	3·7	...	48	63·68	−14·68	34·46	58·14	−23·68	4·07	Puri
38	20	27	14	27	11	9	71	148	6·0	...	...	77	...	·684	...	3·3	...	67	...	...	49·12	...	...	6·55	Angul.
...	24	55	49	71	25	97	31	13	4·4	3·6	+0·8	70	−1	·631	−·028	4·0	+0·1	71	72·00	−1·00	69·60	67·39	+2·21	5·74	Sambalpur.
232	6	12	8	1	9	60	32	5	(*j*) 1·8	1·8	0	77	+3	·624	−·034	2·8	−0·8	70	75·36	−5·36	49·32	51·29	−1·97	4·68	Chaibassa.
46	24	16	30	12	23	48	85	91	7·4	6·3	+1·1	84	−3	·496	−·042	3·8	+0·3	71	81·49	−10·49	62·56	55·79	+6·77	6·19	Ranchi.
35	15	29	15	18	26	30	151	46	3·5	...	...	78	...	·636	...	3·7	...	65	75·31	−10·31	57·20	53·71	+4·49	7·62	Purulia.
39	29	13	29	20	45	75	63	60	6·8	7·3	−0·5	61	−4	·490	−·022	3·7	−0·6	67	75·70	−8·70	64·47	53·40	+11·07	4·11	Hazaribagh.
236	10	12	39	22	14	20	10	2	3·3	...	...	78	...	·585	...	3·1	...	63	62·52	+5·48	68·19	44·53	+23·66	7·60	Daltongunj.
124	3	107	31	37	3	29	7	24	2·4	3·1	−0·7	82	+4	·630	+·001	3·7	+0·1	63	70·51	−7·51	54·46	64·88	−10·42	5·44	Purnea.
168	5	48	37	30	20	26	29	3	2·7	...	...	72	...	·666	...	4·1	...	65	60·31	+4·19	50·94	49·35	+1·48	5·90	Bhagalpur.
30	13	21	106	28	1	14	43	11	6·1	...	...	79	...	·784	...	3·7	...	53	...	...	47·18	...	...	6·30	Monghyr (*c*).
163	13	61	76	11	...	8	11	2	2·7	4·0	−1·3	85	+6	·636	+·005	3·1	+0·2	54	58·35	−4·35	40·08	51·07	−10·99	3·77	Darbhanga.
148	4	50	65	14	10	13	20	9	...	...	...	81	...	·663	...	3·6	...	53	...	...	39·71	...	...	7·37	Purea (*d*).
142	1	19	83	68	1	10	19	16	3·5	...	...	78	...	·679	...	1·8	...	47	55·97	−8·97	33·38	45·63	−12·25	4·52	Muzaffarpur.
131	12	79	90	14	8	13	21	7	3·3	...	...	85	...	·649	...	4·2	...	52	65·74	−3·74	60·39	51·66	−12·26	4·97	Motihari.
80	55	13	73	24	48	9	16	4	(*i*) 1·6	...	...§	177	...	·700	...	2·5	...	43	52·29	−10·29	38·99	40·89	−1·90	4·81	Chapra (*e*).
23	16	36	97	23	40	44	77	11	5·0	3·7	+1·3	71	−1	·645	−·008	3·3	−0·3	52	55·35	−3·35	37·41	46·04	−10·63	5·88	Patna.
112	11	45	27	44	29	55	33	9	3·2	...	...	73	...	·633	...	1·7	...	48	55·93	−7·93	35·75	46·04	−10·29	4·50	Arrah.
34	10	13	111	27	27	76	67	10	5·0	...	...	68	...	·587	...	3·1	...	41	54·74	+13·74	38·71	51·55	−12·84	3·29	Buxar.

(*f*) Mean of 5 months.
(*g*) Mean of 6 months.
* Mean of 11 months.

§-Uncorrected.

(*h*) Wind direction of 363 days.
(*i*) " " " 36 "
(*j*) " " " 26 "
(*k*) " " " 330 "
(*l*) " " " 32 "

Table

(2) *Abstract of observations taken at 8 hrs. at*

Number of sub-division.	Station.	Elevation of bar. cistern above sea level, in feet.	Pressure, 8 hrs., in inches.							Temperature of air.										
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean Detween and maximum minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	III.—Bengal—*concld.*																				
9	Dehri	351	29·274	...	29·787	29·814	29·101	·713	·230	74·2	89·5	...	69·3	...	79·4	...	20·2	113·0	45·0	68·0	33·8
	Gaya	375	29·253	−·010	29·790	29·792	29·051	·741	·239	73·8	89·0	−1·0	68·0	−0·8	78·5	−0·9	21·0	111·0	45·7	67·3	35·0
	IV.—United Provinces of Agra and Oudh.																				
10	Gorakhpur	257	29·538	0	29·790	29·838	29·199	·639	·240	73·0	88·2	+0·2	65·8	−1·6	77·0	−0·8	22·4	109·6	40·5	69·1	35·2
	Benares	267	29·557	−·007	29·785	29·910	29·145	·765	·237	74·3	89·6	0	65·6	−1·2	77·6	−0·6	24·0	110·6	37·1	73·5	38·9
	Allahabad	309	29·516	−·012	29·781	29·863	29·090	·773	·239	74·2	91·5	+1·3	66·5	−0·3	79·0	+0·5	25·0	113·1	38·5	73·6	39·8
	Cawnpore	416	29·409	−·005	29·795	29·761	29·991	·730	·250	72·7	91·2	+1·2	65·7	−0·7	78·5	+0·3	25·4	111·4	35·7	75·7	39·1
	Lucknow	366	29·454	+·005	29·799	29·822	29·016	·806	·255	72·2	91·2	+1·5	63·4	−0·2	76·3	+0·6	25·3	111·0	35·6	75·4	39·6
	Bahraich	401	29·413	−·005	29·784	29·761	29·009	·752	·253	72·4	89·7	*+1·3	65·8	+0·1	77·8	*+0·6	23·9	110·2	39·0	71·2	38·4
11	Jhansi	835	29·013	−·007	29·821	29·390	28·615	·745	·255	76·2	92·3	+0·9	70·2	+1·2	81·3	+1·1	22·1	111·3	46·1	65·2	34·9
	Agra	556	29·276	*+·001	29·836	29·833	29·066	·767	·267	73·1	9·0	*−0·9	67·5	−0·2	78·3	*−0·6	22·5	113·0	43·0	70·0	35·8
	Mainpuri	516	29·309	*+·011†	29·796	29·859	29·890	·769	·254	72·3	91·5	*+1·2	65·6	*+0·6	78·5	†+0·8	25·9	113·7	36·3	77·4	40·4
	Bareilly	568	29·238	−·006	29·787	29·616	28·826	·790	·262	70·4	88·2	+0·7	64·2	−0·8	76·2	+0·1	24·1	109·3	37·0	72·3	37·6
	Meerut	739	29·073	0	29·798	29·415	28·667	·748	·273	69·9	88·2	+0·4	63·0	−0·8	75·6	−0·2	25·2	109·1	35·3	73·8	39·4
	Roorkee	899	29·016	+·006	29·809	29·243	28·503	·741	·263	68·5	86·1	−1·1	61·5	−1·7	73·8	−1·1	24·6	111·0	33·4	77·6	39·1
	Dehra Dun	2,238	27·691	−·005	29·821	27·875	27·236	·639	·246	66·1	82·1	+1·0	60·2	−0·8	71·2	+0·1	21·9	103·5	33·5	65·0	34·2
	V.—Punjab.																				
12	Delhi	718	29·210	+·012	29·810	29·453	28·760	·783	·269	72·1	89·3	+0·2	67·8	+0·3	78·6	+0·4	21·6	112·2	40·7	71·5	35·5
	Sirsa	662	29·158	+·009	29·804	29·530	28·707	·823	·307	70·3	90·0	−1·9	63·8	−0·2	76·9	−1·1	26·2	113·3	34·1	79·2	42·6
	Patiala	818	28·990	...	29·798	29·330	29·565	·765	·276	70·3	89·6	...	63·8	...	74·8	...	23·8	111·2	31·8	79·4	39·5
	Ambala	892	28·911	+·003	29·797	29·245	28·492	·753	·269	68·6	86·9	−1·0	61·6	−1·5	74·3	−1·3	25·3	112·0	32·0	80·0	40·3
	Ludhiana	812	29·001	*+·007	29·806	29·348	28·557	·791	·293	69·3	85·6	*−2·9	*62·5	*+0·1	*73·8	†−1·6	*23·6	113·6	35·0	78·6	37·1
	Lahore	702	29·096	−·004	29·794	29·483	28·630	·853	·318	68·5	86·7	−1·6	62·6	*42·6	*75·2	*+0·1	23·5	114·9	33·2	81·7	43·5
	Sialkot	830	29·477	+·007	29·804	29·339	28·480	·859	·313	69·3	86·7	−1·0	61·3	−1·3	74·1	−1·2	25·4	114·9	30·1	84·8	42·4
	Rawalpindi	1,674	28·138	−·007	29·835	28·466	27·686	·780	·321	65·6	83·7	−0·6	57·6	0	70·7	−0·3	26·1	113·5	28·6	64·9	42·2
13	Khushab	618	29·311	+·020†	29·811	29·603	28·697	·906	·342	71·7	89·3	−0·2	63·2	−0·5	76·3	−0·4	26·2	116·8	30·4	86·4	44·9
	Montgomery	538	29·269	+·012†	29·800	29·663	28·790	·903	·343	72·7	91·0	−1·3	63·2	−0·9	77·1	−1·2	27·8	116·8	32·1	84·7	46·7
	Multan	420	29·390	−·004	29·787	29·813	28·871	·942	·349	72·6	91·1	−0·8	60·0	+0·7	75·6	0	28·1	116·5	38·0	78·5	42·5
	VI.—North-West Frontier Province.																				
14	Peshawar	1,110	28·734	−·009	29·853	29·090	28·219	·871	·341	69·0	84·1	−1·6	53·0	−0·3	71·6	−0·9	25·1	116·2	29·6	86·6	42·2
	Dera Ismail Khan	590	29·240	−·001	29·795	29·540	28·570	·970	·365	69·4	89·8	−0·6	51·9	−0·5	75·9	−0·6	27·9	117·2	33·1	85·1	44·3
	VII.—Sind.																				
17	Jacobabad	186	29·639	+·009	29·792	30·065	29·150	·935	·333	73·0	94·9	−0·7	65·6	+0·3	80·3	−0·2	29·4	120·6	37·5	83·1	46·7
	Hyderabad	96	29·747	+·005	29·799	30·155	29·298	·857	·327	74·5	93·3	−0·3	68·2	−0·1	80·8	−0·2	25·2	113·2	42·0	71·2	41·2
	Karrachee	30	29·844	+·006	29·826	30·215	29·430	·795	·284	75·0	87·6	+0·5	70·3	+0·5	79·1	+0·5	17·3	110·9	46·3	64·7	32·5

N. B.—Elevations in italics indicate barometrical determinations.

Note.—The barometric readings are not reduced to sea-level, in the cases of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 11 months.

† „ „ 10 „

B—*contd.*

239 stations in India, etc., in the year 1907.

Wind direction. Number of winds from: Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Hygrometry, 8, hrs. Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Cloud. Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Rainfall. Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	Station.
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									III.—Bengal—*contd.*
32	6	14	49	12	60	134	46	12	4·5	...	...	66	...	·593	...	4·6	...	50	55·34	−5·34	44·74	43·20	+1·54	5·64	Dehri.
112	13	42	24	23	62	31	66	3	3·5	3·7	−0·2	73	+2	·640	+·003	3·4	−0·3	61	57·38	+3·62	69·64	47·00	+12·64	6·24	Gaya.
																									IV.—United Provinces of Agra and Oudh.
177	9	53	41	25	7	11	25	17	S 1·5	2·3	−0·8	71	−4	·813	−·029	2·8	+0·1	41	54·10	−13·10	26·55	52·01	−26·43	2·79	Gorakhpur.
127	7	17	54	23	9	54	51	23	3·0	2·7	+0·3	68	−6	·609	−·016	2·9	−0·5	50	50·90	−0·90	38·01	40·99	−2·98	2·87	Benares.
81	7	31	48	15	10	33	119	31	3·6	5·1	−1·5	60	−7	·533	−·071	3·1	−0·4	41	45·30	−4·30	27·16	40·71	−13·55	3·02	Allahabad.
172	13	7	28	22	6	26	66	25	S 1·5	3·7	−2·2	64	−3	·535	−·053	1·4	−1·5	33	43·00	−10·00	24·98	35·94	−10·96	3·17	Cawnpore.
194	7	23	35	28	7	21	34	17	2·1	3·0	−0·9	64	−6	·537	−·055	2·3	−1·1	30	51·00	−21·00	16·70	38·89	−22·19	2·38	Lucknow.
138	10	9	70	53	8	10	22	45	2·9	3·1	−0·2	69	−6	·582	−·059	2·7	−0·1	36	50·40	−14·40	18·47	48·91	−30·44	1·96	Bahraich.
143	16	12	13	11	10	59	70	31	4·8	3·3	+1·5	*66	+11P	*·638	+·115P	2·1	−0·3	39	43·90	−4·90	24·71	38·51	−13·80	2·90	Jhansi.
100	...	31	...	57	...	149	...	38	4·7	4·5	+0·2	57	−4	·431	−·052	2·5	−0·3	32	35·30	−3·30	24·19	28·42	−4·23	4·30	Agra.
108	15	20	28	25	14	35	56	64	2·4	1·8	+0·6	62	−4	·519	−·035	2·6	−0·7	27	38·10	−11·10	15·09	31·76	−16·67	1·96	Mainpuri.
243	16	11	36	5	8	7	26	13	2·0	2·8	−0·8	69	−3	·539	−·040	2·7	−0·3	33	47·17	−14·17	26·63	47·86	−21·23	4·40	Bareilly.
226	6	8	20	11	1	16	65	12	1·5	2·1	−0·6	65	−1	·501	−·006	2·1	−0·9	31	37·00	−6·00	11·90	32·07	−20·17	1·84	Meerut.
233	2	9	2	72	1	2	7	47	S 2·7	2·5	+0·2	68	−3	·492	−·031	1·8	−1·3	34	49·10	−15·10	25·33	43·22	−17·79	3·81	Roorkee.
361	...	1	...	...	...	...	...	...	S 1·6	1·5	+0·1	67	−3	·453	−·025	3·3	−0·7	62	80·90	−18·90	45·30	89·19	−43·89	2·24	Dehra Dun. (c)
																									V.—Punjab.
33	19	15	25	42	12	24	144	51	4·5	3·5	+1·0	62	+4	·501	+·011	2·9	−0·6	24	37·10	−13·10	12·24	28·09	−15·85	1·88	Delhi.
105	16	26	37	23	21	48	52	28	4·2	4·8	−0·6	62	+3	·486	−·001	2·0	−1·3	30	23·40	+6·60	15·01	14·43	+0·58	2·02	Sirsa.
38	53	15	45	68	16	6	55	69	5·2	...	...	67	...	·523	...	2·2	...	40	...	...	30·85	...	...	3·15	Patiala.
175	1	3	18	64	...	...	21	83	2·7	2·0	+0·7	68	−6	·499	−·058	2·4	−0·3	33	36·90	−3·90	26·80	32·92	−6·12	3·25	Ambala.
104	15	43	4	69	1	26	19	84	2·2	1·9	+0·3	66	0	·493	−·023	2·0	−1·6	43	32·70	+10·30	36·07	28·67	+7·40	6·03	Ludhiana.
158	25	16	26	41	16	4	51	28	2·6	2·4	+0·2	68	+3	·496	−·008	2·5	−0·2	28	21·90	+5·10	15·05	20·10	−5·05	1·54	Lahore.
133	34	54	71	25	11	4	3	25	2·0	2·0	0	65	−1	·488	−·022	1·9	−0·6	36	40·70	−4·70	27·53	31·75	−4·22	3·85	Sialkot.
255	9	37	14	12	7	10	5	16	2·8	2·1	+0·7	63	−5	·517	−·043	3·3	+0·1	50	47·30	+2·70	30·52	33·98	−3·46	2·31	Rawalpindi.
131	25	96	38	11	17	18	16	13	4·8	5·0	−0·2	53	0	·450	+·002	1·9	−0·3	25	18·00	+7·00	12·00	14·12	−2·12	2·40	Khushab.
74	33	52	40	48	38	54	21	15	6·5	5·9	+0·6	50	−5	·416	−·059	3·0	−0·2	23	16·10	+6·90	14·61	10·25	+4·16	4·05	Montgomery.
142	37	55	7	44	10	59	1	10	2·3	2·1	+0·2	58	−2	·491	−·024	1·5	−0·2	8	12·40	−4·40	7·96	7·30	+0·66	2·00	Multan.
																									VI.—North-West Frontier Province.
251	26	7	7	2	14	12	23	23	1·5	2·3	−1·8	63	0	·426	−·039	2·1	+0·1	31	23·80	+7·20	12·81	13·09	−0·28	1·49	Peshawar.
185	19	74	6	33	4	10	1	34	G 1·8	1·8	0	64	0	·503	−·013	2·2	+0·2	20	17·60	+2·40	9·16	8·51	+0·65	1·24	Dera Ismail Khan.
																									VII.—Sind.
98	20	24	7	76	66	11	3	60	4·0	3·4	+0·6	61	+5	·554	+·046	1·8	−0·2	12	8·20	+3·80	4·44	3·78	+0·66	1·74	Jacobabad.
60	66	14	3	8	39	130	20	45	7·3	11·1	−3·8	60	+2	·545	+·016	2·0	−0·7	16	9·70	+6·30	6·60	6·90	−0·30	1·35	Hyderabad.
14	43	88	7	2	...	16	132	63	9·8	12·6	−2·8	70	−3	·553	−·025	4·3	+0·7	19	9·30	+0·70	7·75	8·26	−0·51	1·99	Kurrachee.

S.=Uncorrected.
G=Mean of 8 months.

(c) Wind direction of 361 days.

Table

(2) *Abstract of observations taken at 8 hrs. at*

Number of sub-division.	Station.	Elevation of bar. cistern above sea level, in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and constant gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of daily values of maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	VIII.—Rajputána.																				
18	Bikaner	771	29·047	+·002	29·603	29·429	28·646	·783	·294	73·1	91·2	−0·8	56·3	−1·3	79·8	−1·1	22·9	114·0	42·0	72·0	39·3
	Jodhpur	782	29·074	...	29·853	29·415	28·656	·749	·260	73·3	91·8	...	57·6	...	79·7	...	24·2	111·2	41·1	70·1	39·6
	Pachpadra	*880*	29·459	+·001	29·909	29·643	29·082	·761	·243	71·6	92·7	−2·5*?	53·8	−1·0	78·2	−1·9*?	28·9	112·3	34·2	78·1	45·1
19	Jaipur	1,431	28·423	+·007	29·840	28·737	28·061	·676	·250	73·4	90·7	−0·2	55·4	−0·2	73·1	−0·2	25·3	111·7	39·1	72·6	40·3
	Sambhar	1,354	28·501	+·012	29·938	28·916	28·228	·688	·261	71·1	90·3	+0·2	54·9	−0·3	77·6	0	25·4	112·5	36·5	76·0	40·3
	Ajmer	1,611	28·258	+·011	29·663	28·573	27·988	·585	·253	70·7	89·0	+0·1	57·0	†+2·2?	75·0	†+1·2?	22·0	109·4	41·7	67·7	36·0
	Kotah	819?	29·011	...	29·843	29·345	28·606	·739	·259	75·6	92·3	...	59·6	...	81·0	...	22·7	111·6	44·6	67·0	35·7
	Udaipur	1,925	27·954	...	29·690	28·264	27·577	·687	·235	72·0	93·6	...	53·7	...	76·1	...	24·9	106·0	38·2	67·8	38·9
	IX.—Bombay.																				
20	Deesa	466	29·405	+·005	29·836	29·700	29·037	·673	·221	74·1	94·3	+0·5	55·7	−1·3	80·1	−0·4	28·6	113·8	36·4	77·4	43·0
	Bhuj	396	29·488	+·017	29·841	29·774	29·096	·678	·230	75·1	90·8	−0·6	58·4	−0·4	79·6	−0·5	22·5	107·6	47·0	60·6	34·9
	Jamnagar	61	29·823	...	29·829	30,107	29·421	·686	·223	75·5	89·6	...	59·1	...	78·3	...	20·5	103·9	46·3	57·6	32·2
	Dwarka	37?	29·859	...	29·842	30·136	29·414	·722	·225	77·7	84·4	...	72·8	...	78·7	...	11·6	100·3	54·7	45·6	23·2
	Rajkot	429	29·464	+·016	29·861	29·727	29·078	·649	·201	75·7	93·1	0	58·1	0	79·6	0	27·0	107·4	45·0	62·4	39·1
	Veraval	18	29·576	+·006	29·836	30·111	29·451	·660	·167	76·5	84·7	−0·5	71·5	+0·6	78·1	+0·1	13·2	99·2	53·3	45·9	27·7
	Bhávnagar Para	55	29·846	±−·011	29·845	30·105	29·463	·642	·193	76·0	94·3	+1·2*	58·6	−1·0†?	81·5	0†?	25·7	111·2	46·5	64·7	38·1
	Surat	39	29·855	0	29·840	30·088	29·472	·616	·182	76·4	91·8	+0·2	70·7	+1·3	81·2	+0·8	21·1	107·1	51·6	55·5	34·1
	Ahmedabad	163	29·705*	+·005*	29·819*	30·008	29·331	·675	·203	76·5	94·3	+0·3	70·3	−0·6	82·3	−0·2	24·0	111·1	47·7	63·4	36·0
26	Bombay	37	29·570	−·004	29·847	30·054	29·545	·509	·164	78·3	86·8	+1·0	75·6	+0·7	81·2	+0·9	11·2	93·5	63·5	30·0	18·1
	Ratnagiri	110	29·797	+·003	29·847	29·953	29·516	·437	·144	78·8	87·5	0	73·6	+0·5	80·5	+0·3	13·9	99·3	60·4	39·4	23·9
	Goa	199	29·706	−·010§	29·845	29·962	29·448	·514	·147	78·7	85·4	−0·7	74·3	+0·4	80·1	−0·2	10·5	93·0	63·0	30·0	17·9
	Mormugao	60	29·862	+·002	29·857	30·020	29·594	·426	·147	78·5	85·7	−0·5	75·3	+0·3	80·6	−0·1	10·4	94·0	65·3	28·7	18·2
	Karwar	41	29·871	−·003	29·849	30·012	29·614	·398	·151	76·2	86·6	+0·4	73·2	+0·6	79·9	+0·5	13·3	92·8	61·5	31·3	19·8
27	Malegaon	1,430	28·470	+·013	29·874	29·624	28·127	·567	·182	74·2	92·9	+1·3	54·7	−0·5	78·8	+0·4	28·2	108·3	40·6	67·7	41·1
	Ahmednagar	2,154	27·763	+·016*	29·885	27·965	27·437	·528	·169	73·6	90·0	+1·2	53·7	+0·2	76·9	±0·7	26·3	105·9	43·0	62·9	40·5
	Poona	1,846	28·065	+·003	29·887	28·267	27·768	·499	·163	71·6	89·2	−0·2	53·2	−1·7?	76·2	−1·0?	36·0	105·0	42·3	62·7	38·3
	Sholapur	1,590	28·307	−·003	29·861	28·507	27·990	·517	·164	75·9	92·9	−0·1	58·4	+0·4	80·7	+0·2	24·5	107·2	48·9	58·3	36·3
	Bijapur	1,949	27·958	+·003	29·864	28·152	27·671	·481	·159	74·8	90·7	+0·8	57·6	+0·1	79·2	+0·5	23·1	103·2	48·2	55·0	34·3
	Belgaum	2,539	27·375	+·003	29·865	27·527	27·134	·393	·143	71·5	84·6	±0·1	53·3	−0·2	74·2	−0·1	20·8	99·3	46·0	53·3	32·0
	X.—Central India.																				
21	Neemuch	1,634	28·254	+·008	29·865	28·527	27·856	·671	·227	72·6	88·8	−0·2	54·1	−0·2	76·6	−0·2	24·5	107·0	39·8	67·2	37·7
	Indore	1,823	28·065*?	+·033§?	29·887*?	28·321	27·698	·623	·197	73·0	88·4	+0·4	53·7	0	76·1	+0·1	24·7	104·6	41·1	63·5	38·9
23	Nowgong	764	29·068*	*+·003	*29·797	29·425	28·676	·749	* ·227	71·8	89·9	−0·4	55·1	*−0·6	77·2	*−0·6	24·1	110·0	37·5	72·5	38·4
	Sutna	1,040	28·786	−·005	29·808	29·103	28·401	·702	·237	72·9	89·4	+1·3	56·	+0·5	77·8	+0·9	23·3	110·1	40·2	69·9	37·0
	XI.—Central Provinces.																				
28	Buldana	2·182	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Akola	930	28·948	+·006	29·846	29·226	28·568	·660	·196	75·3	93·4	+0·5	57·2	+0·1	80·3	+0·3	26·2	112·8	44·6	68·2	39·4
	Amraoti	1,215	28·664	*+·016	29·845	28·935	28·278	·657	·195	76·0	92·2	+0·2	58·8	−0·1	80·5	0	23·4	110·4	49·9	60·6	35·4

N.B.—Elevations in italics indicate barometrical determinations.
Note.—The barometric readings are not reduced to sea-level, in the cases of hill or plateau stations, the elevations of which exceed 3,200 feet.

*Mean of 11 months
§ " " 5 " "
† " " 9 " "
‡ " " 7 " "

3—*contd.*

139 stations in India, etc., in the year 1907.

Wind direction. Number of winds from									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.						Highest rainfall during year.	Station.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity, miles per hour.	Normal.	Departure from normal.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.		
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									VIII.—Rajputana.
14	7	11	33	60	62	98	67	16	7·2	5·9	+1·3	60	+7	·547	+·048	2·1	−0·5	15	18·60	−3·60	10·50	11·29	+8·21	4·04	Bikaner.
49	33	59	21	11	31	105	39	17	4·9	...	...	49	...	·443	...	3·3	...	24	20·30	+3·70	12·09	13·14	−1·05	1·50	Jodhpur.
39	17	27	43	26	67	90	40	16	8·7*	7·0	+1·7	65	+ 3	·550	0	0·8	−3·6	19	19·10	−0·10	20·25	13·30	+6·95	3·68	Pachpadra.
51	44	55	49	17	6	11	54	78	4·9S	4·4	+0·5	61	− 7	·441	−·053	2·7	−0·5	31	37·80	−6·80	18·47	26·05	−7·58	3·43	Jaipur.
156	23	16	23	6	10	6	86	39	5·4S	6·4	−1·0	60	+ 3	·494	+·014	2·4	−0·5	33	31·30	+1·70	19·03	20·74	−1·71	2·44	Sambhar.
124	3	19	2	22	5	33	99	47	5·9	5·0	+0·9	62	− 1	·497	−·005	3·1	+0·4	29	32·60	−3·60	14·38	21·80	−7·42	2·75	Ajmer.
158	10	11	3	12	2	69	30	70	2·8	...	...	49	...	·444	...	2·2	...	25	37·60	−12·60	17·62	29·92	−12·30	2·32	Kotah.
177	20	7	2	5	13	40	72	26	4·4	...	...	58	...	·476	...	2·4	...	28	34·10	−6·10	18·22	...	...	2·05	Udaipur (c).
																									IX.—Bombay.
14	19	78	60	16	33	90	35	20	9·7S	10·2	−0·5	68	+ 2	·527	+·003	3·3	−0·1	37	28·81	+8·19	54·06	24·12	+30·54	12·05	Deesa.
44	16	8	12	14	6	74	92	72	10·4	11·1	−0·7	76	+12?	·659	+·078	3·3	+0·4	22	16·10	+5·90	15·73	14·52	+1·21	3·62	Bhuj.
86	6	7	29	25	12	104	62	35	11·0	...	...	62	...	·630	...	0·6	...	20	...	...	21·38	...	...	3·32	Jamnagar.
21	51	34	13	4	16	101	67	58	13·7S	...	...	77	...	·759	...	3·3	...	20	...	...	18·35	...	...	3·71	Dwarka.
56	16	28	13	22	12	115	39	64	7·7	9·1	−1·4	63	− 4	·585	−·039	3·0	0	26	30·90	−4·90	19·21	28·13	−8·92	2·00	Rajkot.
45	83	53	5	6	7	34	84	49	11·7	8·4	+3·3	71	+ 1	·676	+·010	2·7	−1·2	24	29·20	−5·20	17·51	18·24	−0·73	3·55	Veraval.
34	19	11	3	7	9	115	26	141	7·1	10·1	−3·0	65	− 4	·625	−·034	3·3	0	27	34·70	−7·70	19·45	19·76	−5·31	2·52	Bhavnagar Para.
35	81	34	51	15	42	50	47	9	5·6	7·6	−2·0	72	+ 1	·683	+·003?	3·2	−0·2	42	47·40	−5·40	36·88	44·03	−5·15	6·03	Surat.
14	37	84	23	8	12	79	36	66	5·7	5·0	+0·7	57	− 3	·546	−·036	4·0	+0·4	38	37·21	+0·79	33·31	33·24	+0·07	5·00	Ahmedabad (c).
...	49	77	72	25	15	33	63	31	10·1S	11·8	−1·7	77	− 1	·764	−·007	4·0	−0·2	63	75·60	−12·60	100·78	75·21	+25·57	10·02	Bombay.
60	44	53	93	38	8	34	26	11	10·1	8·5	+1·6	73	+ 1	·720	−·007	3·8	−0·1	79	93·60	−14·60	80·60	107·35	−26·75	5·25	Ratnagiri.
14	33	64	94	15	28	36	38	42	9·0Sd	6·5	+2·5	78	0	·771	−·007	5·0	+0·8	94	...	...	94·16	98·43	−4·27	5·18	Goa (a).
63	60	24	75	31	13	8	26	67	9·2S	9·2	−0·1	83	0	·816	+·001	4·9	+1·1	95	...	...	86·64	93·43	−6·79	4·90	Mormugao.
133	21	78	2	...	...	55	34	2	2·7S	4·2	−1·5	88	+ 5	·805	+·062	4·4	+0·8	93	105·50	−12·50	101·57	123·78	−22·21	6·40	Karwar.
131	9	6	5	3	7	34	118	62	8·9	8·9	0	51	−12?	·462	−·103?	1·9	−1·3	31	34·90	−3·90	23·41	24·08	−0·67	3·67	Malegaon.
91	37	5	1	19	17	40	18	137	8·0	11·4	−3·4	51	−16?	·432	−·132?	2·7	−0·6	34	39·60	−5·60	19·45	22·42	−2·97	2·68	Ahmednagar.
216	1	3	11	5	2	13	97	14	8·6S	10·5	−1·9	61	− 2	·493	−·014	2·8	−1·1	58	49·60	+9·40	42·60	27·89	+14·71	4·20	Poona.
27	23	43	32	66	4	47	30	93	10·5	9·8	+0·7	57	+ 2	·516	+·013	3·6	−0·4	34	42·00	−8·00	25·83	30·98	−5·15	6·31	Sholapur.
2	31	40	31	50	16	70	59	66	8·2	6·4	+1·8	66	− 4	·571	−·333?	4·0	+0·1	34	42·40	−8·40	15·07	24·58	−9·51	1·70	Bijapur.
233	2	11	29	10	2	35	54	6	9·0S	15·1	−6·1	70	0	·536	−·001	4·3	0	82	83·30	−1·30	57·71	50·13	+7·58	3·95	Belgaum.
																									X.—Central India.
40	73	50	23	4	9	69	76	21	7·6	8·7	−1·1	53	− 5	·435	−·067	3·2	+0·6	23	37·40	−14·40	20·38	30·08	−9·70	2·48	Neemuch.
85	28	38	33	12	6	23	95	41	4·9	4·1	+0·8	58	− 5	·490	−·033	3·7	+0·2	36	45·30	−9·30	27·27	33·64	−6·37	3·07	Indore.
68	33	7	23	14	34	39	125	23	2·8	2·6	+0·2	63	− 3	·514	−·031	3·5	+0·3	35	50·70	−15·70	31·47	44·96	−13·49	5·93	Nowgong.
111	1	5	23	11	5	59	99	52	3·1	6·0	−2·9	63	+ 2	·530	+·018	4·9	+2·0	47	64·60	−7·60	35·85	45·88	−10·03	4·39	Satna.
																									XI.—Central Provinces.
...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Buldana.
76	3	19	40	30	7	40	83	67	6·0	6·0	0	57	− 1	·517	+·004	3·6	+0·2	42	45·10	−3·10	22·60	34·16	−11·56	2·41	Akola.
37	22	56	53	8	14	68	78	33	6·1	5·7	+0·4	59	0	·542	+·005	3·1	−0·4	50	46·60	+3·20	31·31	34·63	−3·32	3·39	Amraoti.

d Mean of 6 months.
S Uncorrected.

(a) Wind Observations of 364 days.
(c) " " " 366 "

Table

(2) Abstract of observations taken at 8 hrs. at

Number of sub-division.	Station.	Elevation of bar. cistern above sea-level, in feet.	Pressure, 8 hrs., in inches.						Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and 45° constant gravity, at 45° lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly abso lute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	XI.—Central Provinces— *concld.*																				
24	Khandwa	1,044	28·829	+·006	29·851	29·080	28·459	·621	·195	73·1	92·9	+0·9	66·9	0	79·9	+0·4	26·1	110·7	43·1	67·6	40·1
	Hoshangabad	1,066	28·864	+·003	29·853	29·161	28·470	·691	·208	72·0	90·1	−0·3	64·9	−2·1	77·5	−1·2	25·2	108·7	43·3	65·4	38·3
	Saugor	1,802	28·047	+·004	29·029	28·330	27·664	·666	·224	73·4	88·1	+0·1	68·2	+0·6	78·7	+0·3	21·1	107·6	47·0	60·6	34·1
	Jubbulpore	1,327	28·523	+·007	29·533	28·827	28·136	·691	·238	70·3	88·6	+0·2	53·3	−1·2	76·0	−0·5	25·4	107·5	36·3	71·2	38·8
	Seoni	2,032	27·944	+·007	29·949	29·095	27·462	·633	·207	72·5	86·3	+0·5	63·3	−1·6	75·2	−0·5	25·0	106·9	42·0	64·9	38·5
	Nagpur	1,017	28·847	+·011	29·835	29·127	28·456	·669	·214	74·6	91·9	−0·2	67·3	−1·6	79·6	−0·9	24·6	111·1	46·1	65·0	38·3
25	Pendra	2,123?	27·812	...	29·817	29·089	27·424	·665	·222	71·8	85·1	...	64·4	...	74·7	...	20·8	105·3	42·2	63·1	33·3
	Raipur	970	28·879	+·007	29·913	29·166	28·443	·723	·233	72·9	89·2	−1·3	65·7	−3·5?	77·5	−2·3?	23·5	111·3	43·9	67·9	36·2
	Chanda	634	29·239	0	29·818	29·520	28·853	·667	·197	75·9	91·8	−1·0	67·8	−0·3	79·8	−0·9	24·1	112·0	44·5	67·5	37·3
	XII.—Hyderabad.																				
28	Aurangabad	1,905	28·014	...	29·881	29·235	27·694	·541	·152	75·5	90·8	...	65·3	...	78·0	...	25·5	108·2	42·7	63·5	38·8
	Nizamabad	1,260	28·631	...	29·854	29·889	28·278	·610	·178	77·1	91·7	...	63·7	...	80·3	...	23·1	108·9	47·2	61·7	35·5
	Bidar	2,165	27·758	...	29·875	27·970	27·382	·588	·200	75·8	89·1	...	60·3	...	78·7	...	19·7	103·3	55·3	48·0	28·8
29	Gulbarga	1,508	28·392	−·004?	29·508	28·678	28·070	·608	·166	75·8	92·4	+0·1	58·5	−0·2	80·5	−0·1	23·9	107·0	45·8	60·2	35·8
	Raichur	*1,811*	28·084	+·004	29·853	28·777	28·295	·482	·158	77·6	92·2	+0·1	71·3	−0·4	81·7	−0·1	20·9	106·0	55·1	50·9	31·4
	Hyderabad (Deccan).	1,690	28·201	+·003	29·859	28·403	27·870	·533	·179	74·0	90·0	−0·6	59·2	+0·7	79·7	+0·1	20·8	105·3	51·2	54·1	31·9
	Hanumkonda	871	28·997	...	29·823	29·243	28·647	·601	·195	77·1	90·7	...	71·7	...	81·2	...	19·0	109·7	53·7	56·0	30·9
	XIII.—Mysore.																				
30	Chitaldroog	2,405	27·523	−·002	29·572	27·661	27·291	·370	·141	73·6	86·6	+0·1	67·4	+0·3	77·0	+0·2	19·2	97·7	54·9	42·8	28·9
	Hassan	3,149	26·898	+·005	29·909	27·008	26·671	·337	·133	70·0	82·4	+0·7	62·1	0	72·8	+0·4	21·3	94·3	44·2	50·1	32·0
	Bangalore	3,021	26·942	−·008	29·894	27·074	26·716	·358	·136	70·2	84·6	+0·4	63·9	−0·1	74·3	+0·2	20·7	96·8	46·6	49·0	30·8
	Mysore	2,518	27·438	0	29·905	27·563	27·229	·334	·135	72·2	86·0	−0·4	65·9	+0·2	76·0	−0·1	20·1	97·5	52·0	45·5	29·5
	XIV.—Madras.																				
31	Mangalore	65	29·869	−·003	29·887	30·005	29·642	·363	·143	79·4	86·1	−1·0	74·6	+0·2	80·3	−0·3	11·5	93·2	64·9	28·3	13·0
	Calicut	27	29·910	−·001	29·930	30·026	29·720	·306	·133	78·5	86·6	−0·4	74·5	+0·4	80·6	0	12·0	92·8	64·6	28·2	18·8
	Cochin	9	29·931	+·001	29·869	30·025	29·769	·256	·120	78·9	86·0	+0·5	74·8	0	81·4	+0·3	13·2	93·8	67·7	26·1	19·1
	Trivandrum	196	29·736	+·008	29·807	29·935	29·676	·259	·120	77·6	83·7	−0·3	75·0	+0·8	79·4	+0·2	8·7	89·5	66·0	23·5	14·0
32	Tinnevelly	106	29·761	+·002	29·860	29·934	29·557	·377	·146	81·9	93·8	−0·1	75·7	−0·9	84·8	−0·7	18·1	105·3	64·9	40·4	27·7
	Pamban	37	29·877	−·002	29·841	30·046	29·681	·365	·142	81·4	88·0	+0·9	78·0	+0·7	83·0	+0·8	10·0	95·3	68·2	27·1	17·0
	Madura	447	29·678	+·015?	29·864	29·647	29·262	·385	·147	80·2	93·3	−0·7	74·1	+0·2	83·7	−0·3	19·2	103·5	60·2	43·3	29·4
	Periyakulam	944	...	...	...	...	...	...	...	77·6	92·4	...	70·1	...	80·0	...	22·3	99·4	51·6	47·8	33·5
	Pudukkottai	318	29·604	...	29·856	29·777	29·393	·384	·144	79·7	93·6	...	73·9	...	83·8	...	19·7	104·8	60·6	44·2	29·6
	Negapatam	21	29·873	−·009	29·832	30·057	29·659	·398	·145	81·0	91·6	+1·0	76·4	+0·3	84·2	+1·0	15·2	105·4	65·5	39·9	25·2
	Trichinopoly	255	29·666	+·002	29·855	29·947	29·446	·501	·148	80·5	94·1	−0·3	74·5	+0·3	84·2	0	19·7	106·5	59·8	46·8	30·1
	Coimbatore	1,348	28·573	−·003	29·882	28·735	28·319	·406	·148	74·5	89·2	−1·1	60·6	0	79·4	+0·6	19·5	99·4	55·7	43·7	29·4
	Salem	940	28·999	−·007	29·887	29·162	28·777	·385	·141	73·1	93·7	+0·7	71·8	+1·1	82·8	+1·0	21·0	104·2	52·3	51·9	32·9
	Cuddalore	37	29·666	−·002	29·834	30·062	29·622	·440	·153	79·8	90·8	+0·1	75·0	+0·9	83·0	+0·5	15·8	108·6	61·2	45·4	26·6
	Vellore	707	29·205	...	29·661	29·407	29·254	·453	·157	76·9	89·1	...	71·9	...	80·5	...	17·2	103·7	54·8	48·9	29·8
	Madras	22	29·882	−·006	29·834	30·027	29·611	·416	·172	81·0	91·5	−0·1	75·2	+0·5	83·4	+0·2	16·3	109·0	59·5	49·5	27·6
33	Cuddapah	443	29·471	0	29·844	29·682	29·199	·483	·162	80·5	95·7	+0·3	74·0	−0·4	84·9	−0·1	21·8	110·8	55·6	55·2	35·0

N. B.—Elevations in *italics* indicate barometrical determinations.

Note.—The barometric readings are not reduced to sea level, in the cases of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 11 months.
† „ 10 „
‡ „ 9 „

B—contd.

239 stations in India, etc., in the year 1907.

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	W.	W.	N.W.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal of year.	Hygrometry, 8 hrs. Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Cloud. Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Rainfall. Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	Station.
28	24	25	26	27	28	29	30	31	33	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									XI.—Central Provinces.
109	3	20	21	18	6	7	53	129	6·3	6·1	+0·2	56	− 3	·482	−·019	2·9	−0·1	36	42·30	−6·30	17·33	31·35	−14·02	1·75	Khandwa.
123	9	54	29	5	12	60	49	24	3·9	3·2	+0·7	60	− 6	·496	−·055	4·2	+0·7	47	56·00	−9·00	40·87	52·08	−11·21	3·70	Hoshangabad.
39	9	22	35	67	14	58	103	28	6·2	4·4	+1·8	49	−10	·411	−·034	3·2	+0·2	46	58·10	−12·10	38·04	48·57	−10·53	4·90	Saugor.
49	9	19	10	68	59	37	72	32	2·8	3·1	−0·3	63	− 4	·483	−·052	3·0	−0·4	37	63·90	−6·90	36·64	59·11	−22·47	3·05	Jubbulpore (b).
90	48	53	17	11	21	39	44	47	5·2	3·8	+1·4	59	− 5	·476	−·054	3·4	−0·1	38	71·40	−13·40	40·10	55·27	−15·17	4·70	Seoni.
41	100	43	8	11	23	39	57	38	4·3	5·6	−1·3	60	− 1	·516	−·037	3·3	−0·6	64	58·50	+5·40	46·25	49·40	−1·24	3·82	Nagpur.
135	40	16	3	14	29	31	10	87	4·6	...	...	60	...	·477	...	2·9	...	66	...	...	44·83	...	...	2·55	Pendra.
150	8	21	16	5	14	66	39	16	6·8	5·9	+0·9	67	+ 4	·561	−·004	1·6	−2·5	61	63·50	−1·50	49·69	50·65	−0·96	2·63	Raipur.
116	16	15	19	29	24	34	65	48	3·7	3·6	+0·1	64	− 1	·571	−·018	3·5	−0·1	59	61·70	−2·70	45·87	55·75	−9·88	2·31	Chanda.
																									XII.—Hyderabad.
74	23	23	58	23	6	20	105	26	10·5	...	...	53	...	·471	...	3·0	...	48	47·40	+0·60	19·96	27·82	−7·86	1·10	Aurangabad.
147	10	14	...	13	2	53	35	79	4·4	...	...	65	...	·604	...	2·9	...	48	58·30	−10·30	31·03	41·07	−9·14	2·30	Nizamabad.
5	31	49	31	35	34	91	61	28	5·5	...	...	62	...	·549	...	3·4	...	50	59·10	−9·10	37·34	39·71	−2·37	4·35	Bidar.
33	37	55	52	32	31	33	49	43	9·2	10·2	−1·0	65	+1	·590	+·019	2·5	−1·3	52	48·70	+3·30	36·55	31·75	+7·80	3·14	Gulbarga.
64	11	57	29	52	6	87	42	17	9·6	9·6	0	61	− 4	·585	−·020	3·8	+0·1	44	44·20	−0·20	22·27	30·74	−8·47	3·43	Raichur.
257	...	2	3	3	...	...	77	22	3·7	5·5	−1·8	66	− 4	·554	−·008	4·2	+0·6	42	...	...	25·23	31·56	− 6·33	2·23	Hyderabad (Deccan) (a).
78	32	1	5	73	45	93	53	54	7·3	...	...	63	...	·589	...	4·4	...	52	51·40	+0·60	37·33	...	...	3·80	Hanumkonda.
																									XIII.—Mysore.
26	6	14	60	34	9	66	105	45	6·2	8·1	−1·9	69	− 1	·572	−·004	3·9	−1·2	50	48·50	+1·50	22·35	26·33	−3·98	2·04	Chitaldroog.
100	6·3	35	37	28	19	38	68	37	2·2	3·6	−1·4	93	+6	·603	+·029	5·6	0	78	68·20	+9·80	35·12	35·09	+0·03	2·25	Hassan.
...	7	35	90	23	18	75	102	16	7·9	6·3	+1·6	78	0	·530	0	4·8	−0·2	48	58·60	−10·60	31·58	35·06	−3·48	3·67	Bangalore.
21	5	35	49	28	15	108	87	17	9·0	10·0	−1·0	76	0	·562	+·001	5·8	+0·5	54	55·90	−1·90	25·67	31·91	−5·24	1·82	Mysore.
																									XIV.—Madras.
104	12	48	127	12	4	12	23	21	4·7	2·9	+1·8	82	+1	·822	+·033	4·8	−0·3	116	117·90	−1·90	123·13	123·94	−0·81	4·32	Mangalore.
47	25	71	115	24	6	17	20	40	7·9	8·6	−0·7	84	+1	·817	+·015	5·5	+0·7	123	116·10	+6·90	153·78	115·11	+37·67	5·64	Calicut.
34	7	94	121	39	16	17	21	16	6·7	5·5	+1·2	81	0	·812	0	5·2	+0·5	133	130·60	+2·40	120·02	115·63	+4·39	4·01	Cochin.
155	65	23	3	...	...	7	14	103	4·6	6·1	−1·5	82	0	·778	−·016	5·5	0	110	92·90	+17·10	90·25	62·78	+27·47	4·94	Trivandrum.
47	72	33	5	4	4	28	80	92	4·6	6·0	−1·4	77	+8	·847	+·105?	5·2	+0·5	41	41·40	−0·40	27·19	28·63	−1·44	2·02	Tinnevelly.
49	37	55	22	33	43	71	26	29	12·0	10·3	+1·7	91	...	·874	...	3·6	...	45	42·70	+2·30	39·98	38·97	+0·91	4·01	Pamban.
24	59	55	30	8	1	17	73	98	7·2	4·2	+3·0	74	+4	·757	+·021	5·8	+1·4	37	50·20	−13·20	25·55	33·30	−7·75	3·00	Madura.
210	11	16	8	8	3	7	4	6	3·2	...	...	70	...	·648	...	4·4	...	38	27·10	+10·90	31·35	14·94	+16·41	2·31	Periyakulam. (i)
25	51	84	18	10	9	37	43	83	9·1	...	...	74	...	·752	...	6·1	...	50	...	...	23·67	...	...	2·60	Pudukkottai. (k)
15	10	44	10	19	12	80	91	83	9·9	6·9	+3·0	74	−2	·787	−·021	4·6	−0·8	55	58·20	−3·20	45·15	55·55	−10·41	5·28	Negapatam. (a)
118	31	27	11	3	8	78	83	16	4·8	5·8	−1·0	75	+3	·787	+·056	5·0	+0·1	37	44·60	−7·60	30·53	32·54	−2·02	5·16	Trichinopoly.
35	21	68	39	12	33	115	37	5	6·5	4·2	+2·3	80	−3	·691	−·042	4·6	−0·1	50	43·80	+6·20	25·06	20·30	+4·76	2·69	Coimbatore.
29	17	42	71	4	16	108	62	16	5·3	4·2	+1·1	79	+3	·779	+·050	5·4	+1·0	56	59·50	−3·50	33·10	40·50	−7·40	2·73	Salem.
23	33	5	1	3	40	89	87	79	6·9	2·5	+4·4	76	−7	·787	−·071	4·5	−0·7	51	56·30	−5·30	40·31	52·55	−6·27	2·57	Cuddalore.
32	5	26	15	50	5	13	23	46	4·1	...	...	77	...	·710	...	3·2	...	56	54·90	+1·10	39·35	33·47	+0·88	2·87	Vellore.
18	33	17	8	2	75	65	103	39	6·6	6·3	+0·3	77	+1	·809	+·004	4·4	−0·7	54	837 0	−29·70	44·66	50·39	−5·73	4·59	Madras.
1	3	41	44	90	8	43	61	64	...	...	...	67	−1	·699	−·007	4·3	0	27	43·70	−16·70	18·95	32·69	−13·74	3·37	Cuddapah

8 Uncorrected.

(a) Wind observations of 364 days.

(b) ,, ,, ,, 355 ,,

(k) ,, ,, ,, 359 ,,

(i) ,, ,, ,, 273 ,,

TABLE

(2) Abstract of observations taken at 8 hrs. at

Number of sub-division.	Station.	Elevation of bar. cistern above sea-level, in feet.	Pressure, 8 hrs., in inches.							Temperature of air.										
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean Maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	3	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	XIV—Madras. —*concld.*																				
	Bellary	1,475	28·428	−·001	29·861	28·604	28·169	·435	·155	76·3	93·8	+0·8	71·2	+0·7	82·6	+0·7	22·6	106·0	55·3	50·7	33·0
	Kurnool	913	28·963	(d) −·004	29·841	29·168	28·688	·480	·169	76·9	93·7	−0·1	71·2	+0·6	82·5	+0·3	22·6	108·3	50·6	57·7	33·8
24	Nellore	52	29·830	(d) +·010	29·831	30·071	29·562	·509	·194	80·6	93·1	(d) −1·0	74·5	−0·6	83·8	(d) −0·8	18·6	111·3	60·1	51·2	29·8
	Masulipatam	15	29·886	(d) +·013	29·838	30·132	29·531	·571	·204	80·7	90·7	+0·2	74·8	+0·5	82·8	+0·3	15·9	114·7	60·6	54·1	28·7
	Cocanada	26	29·880	+·001	29·822	30·120	29·504	·616	·211	80·0	89·0	−0·4	74·6	−0·2	81·8	−0·3	14·3	112·5	60·5	52·0	27·9
	Waltair (Vizagapatam)	226	29·688	−·006	29·807	29·908	29·239	·669	·224	79·9	86·5	...	75·1	...	80·8	...	† 11·5	96·9	62·9	34·0	21·0
	Calingapatam	19	29·843	...	29·807	30·139	29·409	·730	·234	...	...	...	...	...	...	...	...	...	...	...	...
	Gopalpur	72	29·794	† +·006	29·808	30·093	29·409	·684	·235	77·5	89·1	+0·1	73·0	−0·3	79·6	−0·1	13·0	102·7	54·5	48·2	23·8
	Stations in the Bay.																				
1	P. V. Fraser	8	‡ 29·835	...	‡ 29·814	30·123	29·347	·776	§ ·316	† 81·3	...	...	...	...	...	...	...	...	...	...	...
	Car Nicobar	25	29·827	...	29·839	29·976	29·728	·248	·141	81·6	86·3	...	76·4	...	81·4	...	10·0	93·5	70·2	23·3	16·3
	Port Blair	61	29·849	−·001	29·841	29·963	29·659	·324	·158	79·5	86·1	−1·3	76·7	−0·4	81·4	−0·9	9·4	93·7	68·5	25·2	17·0
	Slipper Island	90	29·792	...	29·815	29·931	29·578	·353	·170	81·1	86·9	...	77·3	...	81·6	...	8·7	92·1	71·1	21·0	15·7
	Kashmir.																				
14	Srinagar	5,204	24·882	−·006	24·853	25·152	24·488	·664	·331	48·6	66·7	+0·7	43·4	−0·5	55·0	+0·1	23·2	91·8	15·6	76·2	39·4
	Gulmarg ‖	8,569	21·815	...	21·783	22·008	21·663	·345	·220	50·4	66·7	...	43·6	...	54·8	...	22·1	77·1	34·2	42·9	36·6
25	Sonemarg	8,764	21·793	...	21·766	21·991	21·401	·590	·261	35·9	54·2	...	29·7	...	41·9	...	24·5	77·4	−2·4	79·8	44·7
	Dras	10,059	20·801	...	20·769	21·088	20·335	·753	·361	32·5	51·6	...	23·0	...	37·3	...	28·6	89·4	−24·9	114·3	51·4
	Leh	11,503	19·699	−·004	19·667	19·976	19·320	·656	·352	36·3	53·5	−1·9	23·7	−1·1	41·2	† −1·5	24·8	83·7	−5·1	87·8	# 41·7
	Skardu	7,503	22·876	...	22·846	23·261	22·484	·777	·407	46·6	† 59·0	...	40·3	...	† 48·0	...	† 21·9	91·5	10·1	81·4	† 44·7
	Minimarg ‖	9,389	21·346	...	21·314	21·600	20·930	·670	·445	30·6	39·1	...	9·2	...	24·2	...	29·9	61·3	−10·0	71·3	53·4
	Astor ‖	7,935	22·554	...	22·534	22·873	22·088	·785	·554	26·6	41·3	...	12·9	...	32·1	...	18·4	54·9	9·0	45·9	38·5
	Gilgit	4,890	25·134	...	25·106	25·532	24·721	·861	·468	53·6	72·4	−0·4	51·8	−1·5	62·1	−0·9	20·5	107·7	23·2	84·5	40·4
	Baluchistan.																				
16	Quetta	5,502	24·615	−·009	24·575	24·873	24·346	·527	·227	55·6	73·3	+0·4	44·3	0	59·1	+0·2	29·5	96·6	15·8	80·8	49·7
	Chaman	4,311	25·677	+·005	25·639	25·961	25·341	·620	·250	59·8	78·2	−0·8	62·5	−1·9	65·3	−1·5	25·8	104·6	12·3	92·6	49·5
	Robat	...	26·953	...	26·792	27·411	26·504	·907	·336	66·4	77·8	...	60·5	...	69·2	...	17·3	111·5	29·1	82·4	39·7
	Hill Stations excluding Kashmir and Baluchistan.																				
	Chitral	5,466	...	...	...	...	...	...	...	53·7	72·3	...	(d) 48·0	...	(d) 60·9	...	(d) 25·7	105·6	27·5	78·3	(d) 43·9
	Para Chinar	6,000	24·985	...	24·952	24·640	24·031	·609	·200	57·4	69·6	...	47·3	...	58·5	...	22·4	94·6	13·2	81·7	40·7
	Cherat	4,236	† 25·675	† −·017	† 25·643	25·888	25·326	·562	·287	61·3	71·7	−2·0	50·3	−0·5	64·0	−1·3	15·4	102·1	31·0	71·1	34·7 d
	Murree	6,333	23·930	0	23·898	24·094	23·386	·708	·230	55·9	63·6	−2·2	(d) 49·7	(d) −0·7	(d) 56·8	(d) −1·2	(d) 14·1	91·6	22·5	69·1	35·1
	Kailang	10,037	20·969	...	20·924	21·185	20·767	·398	·177	38·5	54·9	−0·6	30·2	−1·5	42·8	−1·0	24·2	80·3	0·1	80·2	42·5
	Simla	7,224	23·084	−·007	23·046	23·309	22·829	·480	·209	53·8	60·8	0	46·4	−0·5	55·1	−0·3	11·3	81·2	25·4	55·8	25·8
	Sarain	...	23·198	...	...	23·360	22·917	·443	·211	49·5	65·4	...	42·3	...	53·8	...	20·2	83·2	20·9	62·3	34·9
	Kalabagh*	...	20·108	...	...	20·261	19·984	·277	·172	65·4	54·4	...	44·1	...	49·3	...	10·3	71·4	31·5	39·9	22·2

N. B.—Elevations in italics indicate barometrical determinations.

NOTE.—The barometric readings are not reduced to sea-level, in the cases of hill or plateau stations, the elevations of which exceed 3,200 feet.

† Mean of 10 months. (d) Mean of 11 months.

§ Mean of 8 months. ‖ Mean of 4 months.

‡ Mean of 6 months. * Mean of 5 months.

B—*continued.*

239 stations in India, etc., in the year 1907.

Wind direction on. Number of winds from									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.						Station.
Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Mean velocity, miles per hour.	Normal.	Departure from normal.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									XIV—Madras— *concld.*
89	15	8	25	42	29	33	99	65	5·5 S	6·7	−1·2	59	−3	·538	−·042	3·6	−1·1	26	34·30	−8·30	14·49	19·73	−5·25	1·54	Bellary.
129	9	3	19	13	31	62	30	64	7·3 S	...	...	71	+3?	·660	+·035?	3·6	−0·2	29	47·60	−18·60	15·51	28·40	−12·89	3·00	Kurnool.
29	21	13	18	47	68	38	69	70	6·7	6·7	0	75	−1	·766	−·043	4·6	−0·4	30	42·40	−12·40	38·72	30·73	+7·99	7·74	Nellore.
207	13	18	5	17	21	10	29	45	7·0	6·5	+0·5	90	−2	·838	−·008?	4·5	−0·3	44	51·00	−7·00	24·48	40·91	−16·43	2·10	Masulipatam.
66	25	62	7	5	4	100	42	54	6·7	7·9	−1·2	80	+5?	·832	+·062?	5·7	+1·0	49	53·90	−4·90	42·78	39·84	+2·94	5·95	Cocanada.
27	20	71	3	1	2	137	93	11	9·8 S	...	...	70	−3	·728	−·039	5·3	+0·5	54	49·60	+4·40	27·10	43·54	−16·34	1·94	Waltair (Vizagapatam).
3	42	27	4	5	26	75	103	75	7·9 *	...	...	...	...	...	...	3·7†	...	36	...	...	25·32	...	...	3·74	Calingapatam.
33	78	11	1	2	41	93	14	102	11·9	11·8	+0·1	79	−3	·744	−·040	3·1	−1·5	47	55·20	−8·20	26·63	47·53	−20·90	3·97	Gopalpur.
																									Stations in the Bay.
13	29	25	12	7	23	72	20	14	...	...	...	†† 84	...	†† ·900	...	4·8	...	40	...	...	24·44	...	...	2·79	P. V. Fraser.‡
37	35	36	18	18	17	125	7	5	3·4 S	...	...	83	...	·891	...	9·6	...	144	...	...	103·73	...	...	3·93	Car Nicobar.§
38	23	46	21	27	21	71	86	29	8·1	7·5	+0·6	84	−2	·852	−·043	6·4	+0·4	156	...	...	131·79	117·63	+14·16	5·08	Port Blair.
23	55	41	44	33	39	62	31	32	14·4	...	...	83	...	·877	...	7·1	...	104	...	...	80·30	...	...	4·41	Slipper Island.
																									Kashmir.
111	20	18	14	73	52	19	11	42	3·6	3·6	0	63	−3	·320	−·035	4·1	−0·5	54	56·50	+7·50	25·90	24·74	+1·16	2·59	Srinagar.
33	5	45	12	5	1	11	6	3	5·9	...	...	81	...	·375	...	3·0	...	32	...	...	16·10	...	...	2·58	Gulmarg.¶¶
205	44	45	39	9	6	7	3	7	3·0	...	...	89	...	·202	...	4·5	...	89	...	...	73·05	...	...	5·04	Sonemarg.
338	...	1	1	3	2	8	8	4	3·7 S	...	...	74	...	·165	...	3·9	...	53	61·10	−8·10	17·55	24·57	−7·02	0·90	Dras.
306	2	15	14	...	13	4	8	1	2·3	3·0	+0·2	52	0	·124	−·007	4·8	0	16	9·30	+6·70	4·27	3·00	+1·27	0·42	Leh.
270	7	12	3	10	15	37	6	5	5·4	...	...	64	...	·199	...	5·2	...	19	17·00	+2·00	6·16	10·45	−4·29	0·73	Skardu.
80	...	7	23	4	1	...	3	1	3·2	...	...	75	...	·085	...	6·2	...	40	...	...	18·55	...	...	1·17	Minimarg.‖
35	2	6	1	2	46	15	8	1	3·1	...	...	63	...	·393	...	6·5	...	20	...	...	5·63	...	...	0·85	Astor.**
304	...	3	...	4	3	22	24	7	1·9	...	...	40	−5	·337	−·032	5·0	+0·2	13	14·00	−1·00	4·94	4·80	+0·14	0·82	Gilgit.
																									Baluchistan.
298	5	2	3	10	13	2	4	7	1·6	2·9	−1·3	54	−4	·242	−·038	1·9	0	21	26·30	−5·30	8·78	10·68	−1·90	1·18	Quetta.†
64	65	40	75	47	19	5	5	45	3·2	3·1	+0·1	53	+9	·300	+·033	1·5	−0·5	13	19·60	−6·60	5·05	6·29	−1·24	1·37	Chaman.
203	16	43	30	10	7	21	9	2	4·4	...	...	55	...	·403	...	1·4	...	6	...	...	2·44	...	...	0·71	Robat.‡‡
																									Hill Stations exoluding Kashmir and Baluchistan.
311	9	22	5	3	3	2	1	7	3·4	...	...	67	...	·286	...	2·8	...	32	...	...	15·04	...	...	1·80	Chitral.(a)
324	5	1	3	4	7	5	12	4	4·5	...	...	54	...	·267	...	3·0	...	71	55·20	+12·80	30·03	25·13	+ 4·25	1·96	Para Chinar.
66	14	3	...	28	38	10	9	66	8·4	11·4	−3·0	53	−1	·204	−·025	2·4	−0·7	46	...	...	29·24	24·43	+ 4·81	4·01	Chenat.
141	68	8	26	35	60	3	9	16	6·2 S	3	−0·5	55	0	·257	−·006	3·0	−0·8	81	77·30	+ 3·70	61·03	55·85	+ 5·18	3·39	Murree.
...	11	19	54	61	53	73	70	21	1·6	1·8	−0·2	65	...	·167	...	4·3	...	55	...	...	24·64	22·84	+ 1·80	2·35	Kailang.§§
31	183	4	1	22	109	4	1	10	5·6	4·6	+1·0	55	− 3	·240	−·020	3·7	−0·5	73	80·10	− 7·10	48·24	63·59	−15·35	2·64	Simla.
179	10	10	4	1	64	54	9	1	3·1	...	...	66	...	·244	...	3·3	...	69	...	...	49·91	...	...	3·32	Sarain.‖‖
22	6	...	6	32	23	...	15	47	8·6	...	...	68	...	·240	...	4·2	...	41	...	...	30·72	...	...	4·88	Kalabagh.¶

S Uncorrected.

* Mean of 11 months.

‖ Winds for 119 days.

‡ Winds for 218 days.

† Mean of 9 months.

‡‡ Winds of 349 days.

†† Mean of 10 months.

¶¶ Winds of 122 days.

** Winds of 117 days.

†† Winds of 338 days.

§§ Winds of 362 days.

‖‖ „ „ 362 „

¶ „ „ 151 „

(a) „ „ 363 „

§§ Winds of 338 days.

TABLE

(2) Abstract of observations taken at 8 hrs., at

Number of sub-division.	Station.	Elevation of bar. cistern above sea level, in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to normal gravity, at 45° Lat. and 32 Ft.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Hill Stations excluding Kashmir and Baluchistan. —*concld.*																				
	Chakrata	7,023	23·251	—·004	29·221	23·491	23·056	·435	·210	53·9	65·3	+0·2	49·7	−0·9	57·5	−0·4	15·6	83·8	28·7	57·1	27·5
	Muktesar	7,556	22·948	...	29·207	23·063	22·643	·420	·200	53·1	63·5	...	45·6	...	57·0	...	14·7	80·5	25·9	54·6	28·6
	Darjeeling	7,376	23·004	—·003	29·269	23·204	22·823	·381	·190	52·3	59·1	+0·7	47·3	−0·2	53·2	+0·2	11·8	71·7	32·0	39·7	21·8
	Shillong	4,920	25·108	...	29·060	25·308	24·855	·453	·203	59·6	69·8	...	52·9	...	61·4	...	16·9	80·4	32·2	48·2	28·7
	Cherra Poonjee	4,309	25·667	...	29·618	25·961	25·414	·547	·193	61·9	68·5	...	57·4	...	63·0	...	11·1	80·7	41·3	39·4	23·5
	Maymyo	3,545	26·434	...	29·379	26·636	26·220	·416	·175	65·2	76·4	...	58·1	...	67·3	...	18·3	88·9	34·6	54·3	30·5
	Pachmarhi	3,528	26·426	—·001	29·372	26·660	26·074	·586	·200	67·7	80·5	+0·9	60·3	−1·8	70·4	−0·7	20·3	97·7	34·8	62·9	34·4
	Mount Abu	3,945	26·027	—·001	29·372	26·279	25·721	·549	·212	67·2	75·1	−0·9	61·7	−0·3	68·5	−0·6	13·4	91·2	45·4	45·8	25·2
	Mercara	3,781	26·231	—·001	29·164	26·342	26·066	·276	·114	65·1	76·7	+0·1	61·4	+0·1	69·0	+0·1	15·3	89·5	51·0	37·5	24·4
	Ootacamund	7,332	23·052	...	29·068	23·157	22·873	·284	·111	57·1	65·0	...	49·2	...	57·1	...	15·9	72·5	32·2	40·3	25·2
	Kodaikanal	7,388	22·829	...	29·764	22·918	22·673	·245	·106	56·3	64·5	...	50·3	...	56·8	...	13·7	74·5	40·8	33·7	21·9
	Extra India.																				
	Singapore (a)	10	29·940	...	29·871	30·061	29·827	·234	·138	83·6	88·3	...	73·9	...	81·1	...	14·4	92·6	68·5	24·1	19·9
	Penang (a)	20	29·918	...	29·863	29·987	29·817	·170	·076	82·0	89·2	...	73·6	...	81·4	...	15·7	93·0	66·0	27·0	22·1
	Trincomalee	12	29·909	+·0177	29·847	30·056	29·731	·325	·144	78·6	88·1	−0·5	70·0	−0·6	82·0	−0·6	18·0	96·0	69·5	26·5	19·4
	Colombo	40	29·897	—·008	29·863	29·994	29·750	·244	·128	79·2	86·8	−0·2	75·2	−0·3	81·1	−0·2	11·6	93·5	67·5	25·0	18·7
	Minicoy	7	29·945	...	29·875	30·036	29·795	·241	·122	83·3	87·0	+0·5	...	...	...	...	...	...	...	...	...
	Aminidivi	13	29·928	0	29·869	30·030	29·706	·324	·136	83·3	87·5	+1·3	76·9	−0·2	82·2	+0·6	10·6	95·5	67·1	28·4	18·9
	Gyantse	13,120	18·483	...	...	18·941	18·288	·653	·217	36·4	50·3	...	26·5	...	42·9	...	32·8	82·3	−4·1	86·4	48·6
	Phari-jong	14,400	17·910	...	...	18·056	17·656	·409	·189	34·1	49·1	...	23·1	...	36·2	...	26·0	68·1	−6·0	74·1	44·2
	Gyangtok	13,660	18·463	...	...	24·788	24·215	·573	·221	58·5	68·6	...	48·1	...	58·4	...	20·5	83·2	31·5	50·7	31·7
	Kashgar (c)	4,355	25·579	...	...	26·120	25·220	·900	·480	50·1	58·3	+0·2	43·5	0	54·9	+0·1	23·9	103·3	2·3	101·0	41·6
	Kabul	...	24·266	...	24·235	24·535	23·966	·569	·276	54·2	74·1	+2·1	41·3	−0·7	58·0	+0·7	32·3	101·9	14·4	87·5	53·6
	Meshed	3,104	...	...	...	...	...	...	...	54·2	68·0	...	23·6	−3·2	55·3	...	25·4	98·0	5·0	93·0	50·7
	Jask	13	29·865	—·011	29·825	30·233	29·393	·840	·287	76·6	86·4	−0·2	73·9	+0·6	80·2	+0·2	12·5	104·2	49·8	54·4	26·2
	Muscat	20	29·664	+·009	29·632	30·230	29·397	·833	·276	80·9	85·7	+5·3	77·7	−0·9	83·2	+2·2	10·9	111·7	60·6	51·1	25·5
	Bahrein	18	29·928	...	29·898	30·245	29·452	·793	·291	79·0	82·9	...	71·9	...	77·4	...	10·8	106·8	42·7	66·1	28·3
	Bushire	14	29·855	—·007	29·823	30·311	29·348	·963	·290	72·5	81·2	−1·2	63·2	−0·5	74·7	−0·7	12·9	104·0	35·9	68·1	33·2
	Busrah	25	29·902	...	29·887	30·448	29·352	1·096	·427	69·8	88·0	...	52·0	...	73·4	...	22·7	106·6	23·7	82·9	42·3
	Ispahan (b)	5,912	24·279	...	...	24·560	23·930	·630	·316	53·3	72·7	−1·4	33·2	+0·9	53·4	−0·3	26·6	98·5	8·2	90·3	46·5
	Tehran (b)	4,002	25·617	...	...	26·350	25·450	·900	·397	53·7	1·5	−0·6	45·0	−2·2	59·8	−1·4	23·5	103·0	15·7	87·3	43·0
	Baghdad	220	29·786	—·006	29·756	30·286	29·311	·975	·365	65·7	83·7	−1·5	50·4	+0·9	72·1	−0·3	23·3	115·4	29·8	92·6	42·4
	Beirut	...	...	...	...	29·924	...	...	...	68·2	75·2	...	61·5	...	68·4	...	13·7	95·9	36·0	85·9	27·6
	Aden	94	29·843	+·017	29·808	30·094	29·525	·569	·126	81·2	87·4	−0·8	77·9	+0·1	82·7	−0·3	9·5	98·3	67·4	30·9	18·4
	Perim	201	29·707	—·026	29·843	29·877	29·539	·338	·084	84·3	89·3	−0·5	79·5	+0·4	84·4	0	9·9	98·5	70·4	28·1	14·9
	Zanzibar	73	29·997	+·005	29·927	30·197	29·843	·354	·126	78·7	84·0	+0·4	76·3	−0·2	80·2	+0·1	7·7	93·0	70·8	31·2	13·6
	,, Dunga	164	29·984	...	29·967	30·187	29·759	·428	·145	77·6	85·9	...	73·3	...	79·5	...	14·6	118·5	53·2	66·3	21·5

N.B.—Elevations in italics indicate barometrical determinations.

NOTE.—The barometric readings are not reduced to sea-level, in the cases of hill or plateau stations, the elevations of which exceed 3,200 feet.

(a) 8 hrs. observations. (b) Aneroid uncorrected. (c) Aneroid corrected.

* Mean of 11 months.
† ,, ,, 10 ,,
‡ ,, ,, 9 ,,
§ ,, ,, 8 ,,
(h) ,, ,, 8 ,,

B—*concld.*

239 stations in India, etc., in the year 1907.

Wind Direction. Number of winds from: Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Wind Velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Hygrometry. Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Cloud. Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Rainfall. Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year,	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	Station.
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									Hill Stations excluding Kashmir and Baluchistan. —*concld.*
204	75	11	1	23	30	1	...	20	6·9	6·3	+0·6	65	+ 1	·294	+·003	3·3	−0·1	68	88·00	−20·00	53·60	70·71	−17·11	5·09	Chakrata.
168	3	14	36	18	1	5	114	6	7·3	...	...	62	...	·263	...	3·7	...	77	...	...	41·21	...	...	6·28	Muktesar.
103	23	65	43	45	14	37	24	13	4·1	4·8	−0·7	84	− 3	·351	−·006	6·3	+0·3	118	131·09	− 3·09	99·42	124·38	−34·96	3·97	Darjeeling.
295	2	2	9	10	25	31	1	...	4·4	...	...	74	...	·406	...	4·5	...	132	120·40	+11·60	67·25	79·73	−12·47	2·35	Shillong.
103	3	75	41	12	18	63	38	11	5·4	...	...	82	...	·470	...	5·3	...	167	161·70	+ 5·30	361·45	438·85	−77·40	18·96	Cherra Poonjee.
300	...	2	1	4	8	27	1	1	1·7	...	...	85	...	·549	...	4·8	...	80	90·70	−10·70	43·13	58·96	−15·83	2·58	Maymyo m.
98	8	15	13	16	9	60	70	75	6·7	5·9	+0·8	62	+ 2	·418	−·016	3·4	−0·5	52	79·20	−27·20	57·78	76·31	−18·43	6·10	Pachmarhi.
63	38	26	6	9	20	122	43	39	7·8	7·8	0	56	+ 1	·379	+·006	2·8	−0·5	62	54·20	+ 7·80	79·03	61·73	+17·29	16·53	Mount Abu.
71	28	62	52	10	7	17		67	3·5	5·9	−2·4	89	+ 6	·556	+·020	6·3	+0·4	120	134·70	−14·70	142·29	125·94	+16·35	6·94	Mercara.
39	5	58	91	57	12	20	66	17	5·5	...	...	68	...	·321	...	5·0	...	108	90·70	+17·30	53·25	46·60	+ 6·65	2·07	Ootacamund.
2	56	42	58	40	14	7	61	85	13·0	...	...	72	...	·321	...	4·5	...	91	99·40	− 8·40	45·46	64·62	−16·36	8·63	Kodaikanal.
																									Extra India.
28	30	61	45	75	31	24	35	46	5·6	...	...	...	...	...	...	5·5	...	125	...	...	86·26	...	...	3·86	Singapore.
6	97	77	37	38	12	9	13	76	10·6	...	...	...	...	...	...	2·0	...	116	...	...	76·29	...	...	4·25	Penang.
130	7	9	6	1	18	175	15	2	4·4	10·0	−5·6	85	+ 4	·838	−·026	3·6	+0·3	73	...	...	70·67	62·37	+ 8·30	7·19	Trincomalee.
5	39	54	22	27	19	124	63	12	7·2	8·0	−0·8	85	+ 8	·853	+·008	5·3	+0·2	96	...	...	70·40	89·59	−19·10	6·33	Colombo.
...	80	54	23	5	6	36	79	92	7·6	9·5	−1·9	75	− 4	·861	+·013	5·0	+0·4	97	...	...	57·34	57·49	− 0·14	5·29	Minicoy.
29	86	92	10	3	3	15	60	67	...	...	...	77	− 3	·855	−·024	5·5	+0·2	84	...	...	56·15	48·41	+ 7·74	7·10	Amini Divi.
14	...	1	4	174	93	76	3	...	2·9	...	...	83	...	·171	...	0	...	11	...	...	4·15	...	...	0·89	Gyantse.
190	18	1	...	46	22	21	4	13	7·5	...	...	94	...	·182	...	3·5	...	39	...	...	15·45	...	...	1·90	Phari Jong.
302	1	22	1	6	3	7	1	2	2·0	...	...	70	...	·406	...	1·7	...	177	...	...	132·38	...	...	3·40	Gangtok.
261	8	1	2	2	1	1	6	37	2·5	2·8	−0·3	52	P	·276	P	3·3	−0·9	10	...	...	2·50	3·99	− 1·49	0·60	Kashgar.
...	92	66	15	5	14	35	70	67	...	...	...	67	...	·256	...	2·1	+0·5	34	...	...	16·27	11·85	+ 3·42	2·55	Kabul.
46	...	...	2	2	4	...	3	2	...	...	...	67	...	·287	...	3·0	P	29	...	...	10·09	8·39	+ 1·70	1·09	Meshed.
49	21	50	112	39	2	7	6	66	11·6	11·9	−0·3	68	− 3	·697	−·030	2·9	+1·3	6	...	...	3·05	4·46	− 1·41	0·83	Jask.
218	8	1	8	31	1	2	14	70	3·8	4·3	−0·5	69	0	·741	−·001	2·1	+0·5	8	...	...	4·54	4·43	+ 0·11	1·86	Muscat.
...	40	10	21	19	9	10	84	162	7·3	...	...	70	...	·730	...	0·2	...	3	...	...	2·66	...	...	0·65	Bahrein.
29	58	44	40	50	25	9	13	95	11·5	7·9	+3·6	74	+ 7	·633	+·025	2·8	...	17	...	...	7·43	12·11	− 4·68	1·84	Bushire.
54	151	6	3	12	49	19	45	26	6·3	...	...	70	...	·542	...	3·2	...	23	...	...	6·23	...	...	0·83	Basrah.
303	3	6	4	2	3	10	24	6	2·8	3·9	−1·1	67	+ 3	·329	+·010	1·8	−0·3	15	...	...	5·57	3·64	+ 1·93	0·97	Ispahan.
26	59	171	20	14	7	20	4	8	4·3	3·0	+1·3	68	+20	·323	+·072	2·9	+0·4	25	...	...	8·63	9·49	− 0·64	0·90	Tehran.
153	91	1	1	2	18	2	9	73	5·3	3·6	+1·7	58	− 1	·368	−·041	2·1	+0·9	16	...	...	10·08	9·04	+ 0·39	1·45	Baghdad.
63	3	27	29	43	6	167	18	9	...	...	...	68	...	·490	...	3·7	...	68	...	...	41·27	...	...	3·49	Beirut.
23	11	251	6	30	7	34	2	2	14·2	12·5	+1·7	74	+ 1	·793	+·011	4·0	−0·2	2	...	...	0·04	2·27	− 2·23	0·25	Aden.
3	5	16	149	54	53	50	15	18	18·1	16·9	+1·2	73	0	·873	+·048	1·2	−2·8	4	...	...	1·56	1·92	− 0·36	1·04	Perim.
58	42	32	14	19	100	92	6	...	6·3	6·7	−0·5	82	− 1	·804	−·013	5·5	−0·4	85	...	...	42·04	55·04	−13·00	2·35	Zanzibar.
23	47	23	1	12	11	116	43	55	5·6	...	...	87	...	·826	...	3·2	...	90	...	...	49·43	...	...	3·90	Dungs.

a Uncorrected.
b Mean of 10 months.
c " 11 "
d " 6 "
e Winds for 306 days.
f Mean of 9 months.
g Wind direction of 344 days.
h Winds for 330 days.
B " 307 "
C " 363 "
i Winds of 345 days.
Y " 319 "
P " 364 "
A " 69 "
n " 365 "
k Mean of 6 months.
E Winds for 361 days.
F " 338 "
G " 346 "
D " 306 "

Table C.—Abstract of observations taken at 8 hrs. at 26 fourth class stations in India, etc., in the year 1907.

TABLE

Abstract of observations taken at 8 hrs. at 26

Number of sub-division.	Station.	Temperature of Air. Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.	Wind Direction. Number of winds from Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	II.—Eastern Bengal and Assam.																					
6	Bishnath	66·0	83·4	...	60·1	...	71·8	...	23·3	90·1	36·4	59·7	35·9	...	...	...	...	...	...	...	...	...
	Borjuli	69·9	85·9	...	61·9	...	73·9	...	24·0	98·3	38·2	60·1	34·4	...	...	...	...	...	...	...	...	...
	Chandkhira	70·7	85·1	...	64·5	...	74·8	...	20·6	94·8	42·5	52·3	33·0	...	...	...	...	...	...	...	...	...
	Doom Dooma	66·2	78·3	...	60·8	...	69·6	...	17·5	101·1	39·8	61·3	31·5	...	...	...	...	...	...	...	...	...
	Dikom	67·2	81·6	...	62·5	...	72·0	...	19·1	99·4	38·3	61·1	32·4	...	...	...	...	...	...	...	...	...
	Golaghat	69·9	82·2	...	64·2 (a)	...	73·2 (a)	...	18·0	96·2	42·0	54·2	30·0 (a)	...	...	...	...	...	...	...	...	...
	Hailakandi	71·1	85·5	...	67·6	...	77·3	...	17·9	96·0	43·0	53·0	31·7	...	...	...	...	...	...	...	...	...
	Jorehat	69·6	82·9	...	64·9	...	73·9	...	18·0	97·9	43·4	54·5	29·5	...	...	...	...	...	...	...	...	...
	Mesza	72·3	88·3	...	61·4	...	74·9	...	26·9	99·4	39·5	59·9	36·3	...	...	...	...	...	...	...	...	...
	Panerihat	63·8	82·6	...	62·2	...	72·4	...	20·4	94·1	41·0	53·1	30·8	...	...	...	...	...	...	...	...	...
	Srimangal	73·4	87·6	...	65·3	...	76·6	...	22·5	97·0	43·2	54·8	33·6	...	...	...	...	...	...	...	...	...
	Turaf	77·3	81·9	...	67·4	...	74·7	...	14·5	94·6	52·4	42·2	24·7	...	25	27	5	55	35	207	9	2
5	Brahmanbaria	75·5	86·7	...	67·7	...	77·2	...	19·0	98·1	45·9	52·2	30·9	...	...	...	...	...	...	...	...	...
	Dain Dim	67·0	67·6	...	61·2	...	74·4	...	25·4	96·4	36·9	49·5	36·7	...	...	...	...	...	...	...	...	...
	Goalundo	74·8	87·0	...	66·5	...	76·8	...	20·5	102·0	41·8	60·2	33·2	...	...	...	...	...	...	...	...	...
	Kalchini	73·3	84·0	...	63·7 (a)	...	73·3 (a)	...	21·3	95·0	41·5	53·5	33·0 (a)	...	...	...	...	...	...	...	...	...
	Nagrakata	72·9	84·6	...	66·4	...	75·8	...	18·2	95·6	42·9	52·7	29·3	...	...	...	...	...	...	...	...	...
	Pahun	75·6	90·9	...	66·8	...	78·9	...	24·1	105·4	47·0	58·4	36·0	...	...	...	...	...	...	...	...	...
	III.—Bengal.																					
8	Fraserganj	78·5	...	...	...	...	...	...	...	...	...	...	...	1	68	...	...	10	214	15	1	29
	XI.—Central Provinces.																					
24	Chindwara	...	...	...	...	...	Observatory not open during the year.				...	...	...	...	...	...	...	...	...	...	...	...
	Hill Stations.																					
	Panighatta	72·2	83·1	...	65·0	...	74·1	...	18·1	93·9	46·1	47·8	29·4	...	...	...	...	...	...	...	...	...
	Kurseong	60·7	68·0	...	56·4	...	62·2	...	11·6	80·5	39·5	41·0	23·1	...	...	...	...	...	...	...	...	...
	Poo	...	57·9	...	41·4 (a)	...	49·7 (a)	...	16·5	78·8	12·0	66·8	32·7 (a)	253	41	4	11	32	12	17	4	9
	Killa Drosh	54·7	71·1	...	54·0	...	64·9	...	17·1	103·0	30·4	72·6	43·0	236	1	11	2	11	...	20	2	3
	Pishik	...	75·1	...	44·6	...	59·8	...	30·5	100·6	13·0	87·6	53·1	...	...	...	...	...	...	...	...	...
	Extra India.																					
	Birjind*	66·8	76·1	...	55·0	...	65·5	...	21·1	95·5	17·6	77·9	41·7	66	36	62	22	23	24	31	2	4
	Thalai	77·2	87·3	...	58·1	...	72·8	...	29·2	99·4	50·1	49·3	41·0	...	21	5	18	33	13	3	3	6

* Observations of 9 months.
§ ,, of 5 months.
† ,, of 10 hrs.

(a) Mean of 10 months.

C.

fourth class stations in India, etc., in the year 1907.

Wind velocity.			Hygrometry, 8 Hrs.				Cloud.		Rainfall.						Heaviest rainfall during the year.	Station.
Mean velocity, miles per hour.	Normal.	Percentage departure from normal.	Mean humidity at 8 hrs of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Total rainfall for the year.	Normal rainfall for the year.	Departure from normal of year.		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
																II.—Eastern Bengal and Assam.
...	...	...	97	...	·666	...	...	...	132	...	...	95·73	...	...	5·06	Bishnath.
...	...	...	89	...	·693	...	...	...	106	...	...	70·00	...	...	3·16	Borjuli.
...	...	...	92	...	·715	...	...	...	122	...	...	97·05	...	...	3·74	Chandkhira.
...	...	...	95	...	·651	...	...	...	128	...	...	94·62	...	...	4·07	Doom Dooma.
...	...	...	90	...	·639	...	...	...	133	...	...	94·79	...	...	3·60	Dikom.
...	...	...	91	...	·700	...	...	...	119	...	...	85·49	...	...	4·07	Golaghat.
...	...	...	90	...	·702	...	...	...	141	...	...	132·17	...	...	4·85	Hailakandi.
...	...	...	91	...	·664	...	...	...	118	...	...	73·76	...	...	3·15	Jorehat.
...	...	...	85	...	·707	...	...	...	120	...	...	101·87	...	...	3·82	Mesea.
...	...	...	94	...	·592	...	...	...	103	...	...	72·15	...	...	2·90	Paucrihat.
...	...	...	87	...	·722	...	...	...	118	...	...	92·30	...	...	4·23	Srimangal.
...	...	...	71	...	·662	...	...	...	110	...	...	100·45	...	...	4·51	Tura.
...	...	...	85	...	·742	...	...	...	80	...	...	66·83	...	...	4·00	Brahmanbaria.
...	...	...	90	...	·647	...	...	...	123	...	...	135·69	...	...	6·73	Dam Dim.
...	...	...	83	...	·749	...	...	...	81	...	...	62·75	...	...	4·06	Goalundo.
...	...	...	82	...	·713	...	...	...	120	...	...	146·77	...	...	8·48	Kalchini.
...	...	...	79	...	·667	...	...	...	132	...	...	141·37	...	...	4·63	Nagrakata.
...	...	...	78	...	·750	...	...	...	80	...	...	49·80	...	...	3·10	Pabna.
																III.—Bengal.
...	...	...	89	...	·529	...	...	...	74	...	...	86·05	...	...	9·53	Fraserganj.
																XI.—Central Provinces.
...	...	...	...	...	...		Observatory not open during		the year.			...	...	...	...	Chindwara.
																Hill Stations.
...	...	...	73	...	·599	...	...	...	117	...	...	104·39	...	...	6·53	Panighatta.
...	...	...	82	...	·449	...	...	...	146	...	...	122·97	...	...	4·87	Kurseong.
...	...	...	...	...	...	...	3·7	...	29	...	...	11·51	18·56	—7·05	1·63	Poo.M
...	...	...	63	...	·290	...	1·9	...	43	...	...	19·37	...	...	1·85	Killa Drosh.N
...	...	...	...	...	...	...	1·0	...	18	23·30	—5·30	8·85	9·98	—1·13	1·77	Pishin.
																Extra India.
10·0	...	...	33	...	·218	...	1·3	...	7	...	...	1·52	...	...	0·25	Birjind.P
R 12·3	...	...	60	...	·561	...	...	...	33	...	...	15·36	...	...	1·31	D'thala.

R = Mean of 3 months.
M = Wind observations of 353 days.
N = " of 281 "
P = " of 252 "

ADDENDA SHEET OF 8 HOURS OBSERVATIONS IN TABLE C OF 1907 MONTHLY WEATHER REVIEW.

Number of sub-division	Station.	Temperature of Air. Mean of 8 hrs. temperature.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month. Date.	Lowest temperature observed during month. Date.	Absolute range during month.	Wind Direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11 12	13 14	15	16	17	18	19	20	21	22	23	24	25	26
	April 1907.																						
...	Birjand . . .	63·0	70·9	...	52·8	...	61·9	...	18·1	84·2 28th	43·2 30th	38·0	9	8	2	1	4	4	1	...	1	N53°E	
	May 1907.																						
...	Birjand (a) . . .	71·0	79·1	...	59·9	...	69·0	...	19·2	87·8 28th	44·5 2nd	43·3	10	3	...	...	7	7	1	1	1	S16°E	...
	June 1907.																						
...	Birjand . . .	77·1	85·9	...	68·6	...	75·3	...	21·0	93·3 18th	57·8 3 days	35·	10	...	...	5	7	8	...	...	...	S38°E	...
	August 1907.																						
...	Birjand (b) . . .	78·7	87·6	...	67·6	...	77·6	...	20·0	95·5 2nd	60·6 16th	34·9	1	...	19	2	2	3	...	...	...	N62°E	...
...	D'thala . . .	75·2	88·8	...	58·9	...	72·8	...	32·0	93·9 2nd	50·1 22nd	43·8	...	8	13	1	2	1	4	2	1	N23°E	...
	ptember 1907.																						
...	Birjand (d) . . .	76·1	85·9	...	59·3	...	72·6	...	26·6	90·8 15th	49·2 6th	41·6	4	...	16	5	2	...	...	...	1	N58°E	...

(a) Observations of 30 days.
(b) ,, ,, 27 ,,
(d) ,, ,, 28 ,,

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Heaviest rainfall during month.	Station.
Mean velocity, miles per hour.	Normal.	Percentage departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Actual rainfall.	Normal rainfall.	Departure from normal.		
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																					April 1907.
10·2	...	...	17	...	43	...	·244	...	3·8	...	4	...	...	0·96	...	...	0·96*	...	...	0·25	Birjand.
																					May 1907.
11·3	...	...	29	...	30	...	·233	...	0·9	...	0	...	...	0·07	...	...	0·07†	...	...	0·05	Birjand.
							*										*				June 1907.
11·1	...	...	53	...	25	...	·242	...	0·3	...	0	...	...	0	...	...	0·07‡	...	...	0	Birjand.
																					August 1907.
11·1	...	...	61	...	29	...	·286	...	0	...	0	...	...	0	...	...	0·07††	...	...	0	Birjand.
10·7	...	...	42	...	63	...	·551	...	0	...	15	...	...	7·17	...	...	†† 11·22	...	...	1·31	D'thala.
																					September 1907.
10·4	...	...	71	...	(c) 28	...	(c) ·254	...	0	...	0	...	...	0	...	...	0·07§	...	...	0	Birjand.

* Total rainfall since 1st April 1907.
† Total rainfall from 1st to 31st May 1907.
‡ Do. ,, 1st May to 30th June 1907.
†† Do. ,, 1st May to 31st August 1907.
§ Do. ,, 1st May to 30th September 1907.
(c) Mean of 26 days.

Corrigenda in India Monthly Weather Reviews for the year 1907.

TEXT.

Page.	Column.	Part.	Correction.
8	1	January 1907	*For* " 34·7 " *read* " 8·34·7 " against 12th in the figure column 1 of the 1st tabular statement.
7	...	Ditto	*Insert* " +0·1 " against Orissa in the figure column 6 of the tabular statement.
9	1	Ditto	*For* " giving " *read* " given " in line 2, paragraph 13, under " Humidity and cloud."
11	...	Ditto	*For* " 0, 0·01, —0·25 and —96 " *read* " 0·1, 0·02, —0·24 and —92 " respectively, against Orissa in the figure columns 1, 3, 5 and 6 of the tabular statement.
11	...	Ditto	*For* " 0·09, —0·42 and —82 " *read* " 0·11, —0·40 and —78 " respectively, against Chota Nagpur in the figure columns 3, 5 and 6 of the tabular statement.
11	...	Ditto	*For* " 0·6, 0·15, 0·23, —0·08 and —35 " *read* " 0·7, 0·19, 0·25, —0·06 and —24 " respectively, against Central India West in the figure columns I, 3, 4, 5 and 6 of the tabular statement.
12	...	Ditto	*For* " 0·17, — 0·29 and —63 " *read* " 0·19, —0·27 and — 59 " respectively, against Central India in the figure columns 1, 3 and 4 of the 1st tabular statement.
12	...	Ditto	*For* " ysore " *read* " Mysore " of the 1st tabular statement.
Title page ii	...	February 1907	*For* " or " *read* " for " in footnote, last line.
"	...	Ditto	*For* " same " *read* " some " in 2nd column, 10th line.
21	...	Ditto	*For* " Mer-ure " *read* " Mercury " in the figure column 3 of the Hygrometry; 8 hours of the 1st tabular statement.
21	...	Ditto	*For* " 0·03, —0·16 and —84 " *read* " 0·08, —0·11 and —58 " respectively, against Lower Burma in the figure columns 3, 5 and 6 of the 2nd tabular statement.
21	...	Ditto	*For* " 4·4, 2·36, + 1·81 and + 3·29 " *read* " 4·2, 2·24, + 1·69 and + 307, respectively, against Bihar of the 2nd tabular statement.
22	...	Ditto	*For* " 1·3, 0·67, 0·29, + 0·38 and + 131 " *read* " 1·6, 0·84, 0·30, + 0·54 and + 180 " respectively, against Central India, West in the figure columns 1, 3, 4, 5 and 6 of the 1st tabular statement.
22	...	Ditto	*For* " 6·9, 1·3, 4·69, 0·62, + 4·07 and + 656 " *read* " 6·8, 1·4, 4·19, 0·64, + 3·55 and + 556 " respectively against Central India, East in the figure columns 1, 2, 3, 4, 5 and 6 of the 1st tabular statement.
22	...	Ditto	*For* " 0·04, — 0·14 and —78 " *read* " 0·06 — 0·12 and — 67 " respectively against Burma in the figure columns 1, 3 and 4 of the 2nd tabular statement.
22	...	Ditto	*For* " 1·50, 0·35, + 1·15 and + 329 " *read* " 1·70, 0·38, + 1·32 and + 347 " respectively against Central India in the figure columns 1, 2, 3 and 4 of the 2nd tabular statement.
22	...	Ditto	*For* " 1·30, + 0·83 and + 177 " *read* " 1·31, + 0·84 and + 179 " respectively against mean of India when the size of the above areas is taken into account, in the figure columns 1, 3 and 4 of the 2nd tabular statement.
33	...	March 1907	*For* " —0 " *read* " —0·7 " against Hyderabad in the figure column 3 of the 1st tabular statement.
35	...	Ditto	*For* " 0·04, 0·11, — 0·07 and — 64 " *read* " 0·06, 0·12, — 0·06 and — 50 " respectively against Central India, West in the figure columns 3, 4, 5 and 6 of the 1st tabular statement.
35	...	Ditto	*For* " 2·65, + 1·88 and + 244 " *read* " 2·56, + 1·79 and + 232 " respectively against Bengal in the figure columns 1, 3 and 4 of the 2nd tabular statement.

Corrigenda in India Monthly Weather Reviews for the year 1907—*contd.*

TEXT.

Page.	Column.	Part.	Correction.
35	...	March 1907	*For* " 0·18, — 0·08 and — 44 " *read* " 0·17, — 0·07 and — 41 " respectively against Central India in the figure columns 2, 3 and 4 of the 2nd tabular statement.
4	2	April 1907	*For* " 17th and 18th April " *read* " 18th and 19th April " respectively in line 1 and 2 of the 1st tabular statement under column " date 1907."
41	...	Ditto	*For* " + 3·46, — 6·56 and — 1·62 " *read* " + 3·60, — 6·91 and — 2·10 " respectively against Rainfall Departure in the figure columns 1, 2 and 3 of the 4th tabular statement.
53	...	May 1907	*For* " + 1·03, 2·85 and — 1·23 " *read* " + 1·07, 3·04 and — 1·16 " respectively against Rainfall Departure in the figure columns 1, 2 and 3 of the 4th tabular statement.
55	...	Ditto	*For* "4·4 " *read* " — 4·4 " against Punjab East and North in the figure column 6 of the 2nd tabular statement.
58	...	Ditto	*For* " 0·45, + 0·01 and + 2 " *read* " 0·48, + 0·04 and + 9 " respectively against Rajputana East in the figure columns 3, 5 and 6 of the tabular statement.
59	...	Ditto	*For* " 0·40 — 0·01 and — 2 " *read* " 0·42, + 0·01 and 2 " respectively against Rajputana in the figure columns 1, 2 and 3 of the 1st tabular statement.
63	...	June 1907	*For* " — 0·85 and — 5·10 " *read* " — 1·00 and — 5·03 " respectively against Rainfall Departure in the figure columns 2 and 3 of the 4th tabular statement.
65	...	Ditto	*For* " ·023 " *read* " + ·023 " against Mount Abu of the 2nd tabular statement.
68	...	Ditto	*For* " 6·45, — 0·43 and — 6 " *read* " 6·54, — 0·34 and — 5 " respectively against Central Provinces in the figure columns 1, 3 and 4 of the 1st tabular statement.
69	...	Ditto	*For* " 1·18, + 0·88 and + 293 " *read* " 1·20, + 0·90 and + 300 " respectively against Baluchistan in the figure columns 3, 5 and 6 of the tabular statement.
69	...	Ditto	*For* " 4·97, — 2·30 and — 32 " *read* " 4·99, — 2·28 and — 31 " respectively against Central Provinces, West in the figure columns 3, 5 and 6 of the tabular statement.
69	...	Ditto	*For* " 10·0, 8·93, + 0·47 and + 6 " *read* " 10·3 9·31, + 0·35 and + 10 " respectively against Central Provinces, East in the figure columns 1, 3, 5 and 6 of the tabular statement.
78	...	July 1907	*Insert* " + 2·6 " against Sind in the figure column 3 of the 1st tabular statement.
80	...	Ditto	*For* " 0·9, 1·5, 0·42, 0·87 and — 52 " *read* " 1·0, 1·6, 0·43, 0·88 and — 51 " respectively against Baluchistan in the figure columns 1, 2, 3, 4 and 6 of the tabular statement.
80	...	Ditto	*For* " 10·69, — 5·97 and — 36 " *read* " 10·89, — 5·77 and — 35 " respectively against Central Provinces, East in the figure columns 3, 5 and 6 of the tabular statement.
83	1	August 1907	*For* " at 34 stations " *read* " at 38 stations " in paragraph 1, line 4, under Introduction.
89	...	Ditto	*For* "—·001 " *read* " + ·098 " against Sind in the figure column 4 of the 1st tabular statement.
89	...	Ditto	*For* " 6·5, 4·35, + 0·46 and + 12 " *read* " 6·3, 4·43, + 0·54 and + 14 " respectively against Kashmir in the figure columns 1, 3, 5 and 6 of the 2nd tabular statement.

Corrigenda in India Monthly Weather Reviews for the year 1907—*concld.*

TEXT.

Page.	Column.	Part.	Correction.
89	...	August 1907	*For* "2·7, 1·91, 0·81, + 1·10 and +136" *read* "2·6, 1·83, 0·83, + 1·00 and + 120" respectively against Baluchistan in the figure columns 1, 3, 4, 5 and 6 of the 2nd tabular statement.
89	...	Ditto	*For* "10·5, 10·39, + 7·57 and + 228" *read* "10·3, 10·82, + 7·50 and + 226" respectively against Rajputana West in the figure columns 1, 3, 5 and 6 of the 2nd tabular statement.
89	...	Ditto	*For* "12·52, + 5·04 and + 67" *read* "12·67, + 5·19 and + 69" respectively against Rajputana East in the figure columns 3, 5 and 6 of the 2nd tabular statement.
90	...	Ditto	*For* "12·09, + 5·29 and + 44" *read* "12·02, + 5·36 and + 45" respectively against Central Provinces, West in the figure columns 4, 5 and 6 of the 1st tabular statement.
90	...	Ditto	*For* "13·96, 10·39, + 3·57 and + 34" *read* "13·99, 10·36, + 3·63 and 35" respectively against Central Provinces in the figure columns 1, 2, 3 and 4 of the 2nd tabular statement.
105	...	October 1907	*For* "Decl" *read* "Decl" in third column of the 2nd tabular statement.
			For "1·2, 0·51 and — 0·51" *read* "1·1, 0·50 and — 0·50" respectively against Baluchistan in the figure columns 2, 4 and 5 of the 1st tabular statement.
120	...	November 1907	*For* "0·63, + 0·05 and + 9" *read* "0·66, + 0·08 and + 14" respectively against Berar in the figure columns 3, 5 and 6 of the 1st tabular statement.
127	...	December 1907	*For* "69·0, 77·3, 16·8 and 28·9" *read* "69·1, 77·4, 16·6 and 28·8" respectively against Madras Southeast in the figure columns 2, 3, 4 and 5 of the 1st tabular statement.

Corrigenda in the India Monthly Weather Reviews for the year 1907.

TABLES A, B AND C.

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
ii	January 1907	A	Pudukkottai	Temperature of air	11, 12, 14, 15 and 18.	*For* "67·5, 18·9, 60·6, 29·3 and 77·0" *read* "68·6, 17·8, 61·7, 28·2 and 77·5" respectively.
iv	Do	A	Minicoy	Pressure	9	*For* "29·989" *read* "29·898."
vii	Do	B	Punjab	Hygrometry	13	*For* "+4" *read* "+4".
vii	Do	B	Central India	Rainfall	18 and 20	*For* "0·17 and —0·29" *read* "0·19 and —0·27" respectively.
viii	Do	B	Chittagong	Pressure	7	*For* "30·023" *read* "30·025".
x	Do	B	Jalpaiguri	Do	7	*For* "29·857" *read* "29·851".
x	Do	B	Do	Temperature of air	15	*For* "58·5" *read* "53·5".
x	Do	B	Burdwan	Do	13	*For* "80·0" *read* "80·8".
x	Do	B	Balasore	Do	24	*For* "43·0" *read* "43·9".
x	Do	B	Cuttack	Pressure	5	*For* "—·022" *read* "—·020".
x	Do	B	Hazaribagh	Temperature of air	22	*For* "45·5" *read* "45·2".
x	Do	B	Purnea	Pressure	5 and 6	*For* "—·032 and 30·010" *read* "—·034 and 30·006" respectively.
x	Do	B	Gaya	Temperature of air	22	*For* "46·4" *read* "46·2".
xi	Do	B	United Provinces of Agra and Oudh.	Division	.....	*For* "united" *read* "limited".
xii	Do	B	Multan	Temperature of air	18 and 24	*For* "+4·0 and 1·3" *read* "+4·9 and 21·3" respectively.
xii	Do	B	Jaipur	Number of Sub-division	1	*Insert* "10".
xiii	Do	B	Sialkot	Wind direction	32	*Insert* "2".
xiii	Do	B	Montgomery	Rainfall	51	*For* "0·8" *read* "0·84".
xiv	Do	B	Mormugao	Elevation	3	*Read* "60" in italics.
xiv	Do	B	Poona	Pressure	4	*For* "29·158" *read* "29·188".
xiv	Do	B	Central Provinces	Division	2	*For* "IX" *read* "XI".
xiv	Do	B	Saugor	Pressure	7	*For* "28·380" *read* "28·330".
xv	Do	B	Satna	Station	57	*For* "Sutaa" *read* "Satna".
xv	Do	B	Central Provinces	Division	57	*For* "IX" *read* "XI".
xv	Do	B	Bidar	Elevation	3	*For* "3,764" *read* "3·165".
xvi	Do	B	Raichur	Do	3	*For* "6,486" *read* "1,911".
xvi	Do	B	Calicut	Pressure	11	*For* "·03" *read* "·093".
xvi	Do	B	Cochin	Elevation	3	*For* "10" *read* "9".
xvi	Do	B	Pudukkottai	Temperature of air	15, 17, 19, 22 and 24.	*For* "67·5, 76·9, 18·8, 60·6 and 29·3" *read* "68·6, 77·5, 17·7, 61·7 and 28·2", respectively.
xvi	Do	B	Nellore	Number of Sub-division	1	*For* "33" *read* "34".
xvi	Do	B	Do	Elevation	3	*For* "52" *read* "61".
xvii	Do	B	Hassan	Wind direction	31	*Omit* "5".

Corrigenda in the India Monthly Weather Reviews for the year 1907—*contd.*

TABLES A, B AND C.

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
xvii	January 1907	B	Madura	Rainfall	51 and 52	*For* "0·26 and —0·26" *read* "0·24 and —0·24" respectively.
xviii	Do	B	Sonemarg	Temperature of air	15	*For* "20·1" *read* "21·1".
xviii	Do	B	Dras	Do	22	*For* "24·9" *read* "—24·9".
xviii	Do	B	Minimarg	Do	22	*For* "—1·0" *read* "1·0".
xviii	Do	B	Astor	Station	2	*For* "Astor" *read* "Astor I".
xviii	Do	B	Kohat	Pressure	4, 7 and 9	*For* "27·019, 27·130 and 26·929" *read* "27·016, 27·127 and 26·926" respectively.
xviii	Do	B	Parachinar	Do	4 and 6	*For* "24·494 and 24·461" *read* "24·495 and 24·462" respectively.
xviii	Do	B	Kailang	Do	4 and 6 to 11	Reject all the readings and insert "*p*".
xix	Do	B	Gilgit	Rainfall	47	*For* "6" *read* "0".
xix	Do	B	Chaman	Wind direction	25 to 34	Reject all the readings.
xix	Do	B	Do	Wind steadiness	39 and 40	Reject all the readings.
xix	Do	B	Kohat	Wind and Rainfall	28 and 53	*For* "9" *read* "1" and *insert* "0·03". respectively.
xx	Do	B	Gyantsi	Pressure	4	*For* "18·477" *read* "18·475".
xx	Do	B	Gangtok	Do	9, 10 and 11	*For* "24·291, 28th and ·325" *read* "24·328, 27th and ·288" respectively.
xx	Do	B	Kabul	Do	9, 10 and 11	*For* "24·133, 24th and 29th and ·307" *read* "24·050, 30th and ·440" respectively.
xx	Do	B	Tehran	Temperature of air	16	*For* "—2·7" *read* "+2·7".
xx	Do	B	Baghdad	Do	19	*For* "26·7" *read* "29·9".
xxi	Do	B	Gangtok	Rainfall	53	*Insert* "1·23".
xxi	Do	B	Bushire	Cloud	46	*For* "40·7" *read* "+0·7".
xxi	Do	B	Zanzibar (Dunga)	Wind Velocity	36	*For* "9·0" *read* "9".
xxi	Do	B	Do	Humidity	41	*Insert* "90".
xxv	Do	C	Tara	Cloud	36	*Insert* "2·4".
xxviii	February 1907	A	Pudukkottai	Temperature of air	11, 13, 14, 15 and 16	*For* "68·5, 23·0, 64·9, 21·8 and 30·0" *read* "69·6, 21·9, 65·1, 30·7 and 30·6", respectively.
xxxi	Do	A	Zanzibar	Wind direction	47	*For* "50°E" *read* "N50°E".
xxxi	Do	A	.....	.....	.....	*For* page mark "XXX", *read* "XXXI".
xxxiii	Do	A	Burma	Rainfall	19 and 20	*For* "·004 and —0·14" *read* "0·06 and —0·12" respectively.
xxxiii	Do	A	Central India	Do	18, 19 and 20	*For* "1·50, 0·35 and +1·15" *read* "1·70, 0·38 and +1·32" respectively.
xxxiv	Do	A	Yamethin	Elevation	3	*For* "257" *read* "657".
xxxiv	Do	B	Rampur Boalia	Pressure	6	*For* "29·52" *read* "29·096".
xxxv	Do	B	Chittagong	Rainfall	48 and 49	*For* "1·29 and +0·11" *read* "1·39 and +0·61" respectively.
xxxv	Do	B	Rampur Boalia	Do	49	*For* "—1·65" *read* "+1·65".
xxxv	Do	D	Dinajpur	Do	49	*For* "—0·3" *read* "—0·39".

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TABLES A, B AND C.

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
xxxv	February 1907	B	Rangpur	Rainfall	56	*For* "0·23" *read* "0·03".
xxxvi	Do	B	Sambalpur	Temperature of air	12	*For* "67·+" *read* "67·1".
xxxvi	Do	B	Chaibassa	Do	15	*For* "0·0" *read* "60·0".
xxxvi	Do	B	Ranchi	Do.	12	*For* "9." *read* "59·0".
xxxvi	Do	B	Purnea	Pressure	5 and 6	*For* "+·026 and 29·996" *read* "+·024 and 29·994", respectively.
xxxvi	Do	B	Motihari	Temperature of air	12	*Insert* 55·8.
xxxvi	Do	B	Arrah	Do	12	*For* "·4" *read* "59·4".
xxxvi	Do	B	Buxar	Do	12	*For* "9·9" *read* "59·9".
xxxvi	Do	B	Dehri	Do	12	*Insert* "62·7".
xxxvii	Do	B	Saugor Island	Wind velocity	36	*For* "8·†" *read* "8·5†"
xxxvii	Do	B	Jessore	Do	36	*For* "8" *read* "0·8".
xxxvii	Do	B	Krishnagar	Do	36	*For* "·51" *read* "1·5".
xxxvii	Do	B	Sambalpur	Rainfall	47	*Insert* "3".
xxxvii	Do	B	Chaibassa	Wind velocity	37	*Insert* "1·5".
xxxvii	Do	B	Hazaribagh	Rainfall	51 and 52	*For* "0·76 and + 3·86" *read* "0·75 and +3·87", respectively.
xxxix	Do	B	Dera Ismail Khan	Raiufall	51 and 52	*For* "0·77 and +0·45" *read* "0·79 and +0·43", respectively.
xxxix	Do	B	Pachpadra	Do	49	*For*" +4·65" *read* "+4·70".
xl	Do	B	Neemuch	Temperature of air	15	*For* "53." *read* "53·1".
xl	Do	B	Jubbulpore	Pressure	11	*For* "·244" *read* "·214".
xli	Do	B	Rajkot	Wind velocity	36	*Insert* "5·7".
xli	Do	B	Bombay	Do	37	*For* "1·4" *read* "10·4:".
xlii	Do	B	Pudukkottai	Temperature of air	15, 17, 19, 22 and 24.	*For* "69·5, 79·9, 23·8, 64·0 and 31·8" read "69·6, 80·5, 21·7, 65·1, and 30·7," respectively.
lii	Do	B	Cocanada	Pressure	7	*For* "29·069" *read* "30·069".
xlii	Do	B	Waltair(Vizagapatam)	Temperature of air	13	*For* "8·27" *read* "82·7".
xliii	Do	B	Aurangabad	Raiufall	51 and 52	*For* "0·11 and + 0·16" *read* "0·17 and + 0·10" respectively.
xliii	Do	B	Nizamabad	Rainfall	51 and 52	*For* "0·13 and +0·35" *read* "0·42 and +0·06" respectively.
xliii	Do	B	Coimbatore	Rainfall	51	*For* "·045" *read* "0·46".
xliii	Do	B	Calingapatam	Wind direction	30	*Insert* "3".
xliv	Do	B	Minimarg	Station	3	*Insert* "X mean of 26 days".
xliv	Do	B	Astor	Do.	3	*Insert* "* mean of 27 days".
xliv	Do	B	Kailang	Pressure	4, 6, 7, 8, 9 10 and 11.	Reject all the readings and insert "?".

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TABLES A, B AND C.

Page.	Part.	Table.	Meteorological division or station.	Heading.	Column No.	Correction.
xlv	February 1907	B	P. V. Fraser	Rainfall	50	*For* "0·29" *read* "0·22".
xlv	Do	B	Chaman	Wind direction	25 to 30	Reject all the readings.
xlv	Do	B	Do.	Wind steadiness	34 and 40	Reject all the readings.
xlv	Do	B	Kohat	Rainfall	53	*Insert* "1·23".
xlvi	Do	B	Gyantsi	Pressure	4	*For* "18·412" *read* "18·416 II".
xlvi	Do	B	.....	.....	.....	*Insert* footnote "II mean of 24 days".
xlvi	Do	B	Kabul	Pressure	4	*For* "24·270" *read* "24·2645 ††".
xlvii	Do	B	Ispahan	Rainfall	47	*For* "1" *read* "4".
xlvii	Do	B	Tehran	Do	51, 53 and 55	*Insert* "0·83, + 1·42, 3·46 and 1·74" respectively.
l	Do	C	Kurseong	Temperature of air	15	*For* "60·0" *read* "40·0".
li	Do	C	Fraserganj	Rainfall	44	*Insert* "0·57".
lv	March 1907	A	Pudukkottai	Temperature of air	11, 12, 14, 16 and 18	*For* "73·5, 22·9, 65·3, 35·2 and 35·0" *read* "74·2, 23·2, 66·3, 34·7 and 35·3," respectively.
lv	Do	A	Rangoon	Rainfall	53 and 54	*For* "4·46 and 2·32" *read* "3·34 and 1·44" respectively.
lvi	Do	A	Chikalda	Temperature of air	11	*For* "42·4" *read* "43·4".
lix	Do	B	Bengal	Rainfall	19 and 20	*For* "2·65 and + 1·83" *read* "2·56 and + 1·79" respectively.
lix	Do	B	Central India	Do	19 and 20	*For* "0·18 and —0·08" *read* "0·17 and —0·02" respectively.
lxii	Do	B	Bankura	Temperature of air	24	*For* "36·6" *read* "36·0".
lxii	Do	B	Bhagalpur	Pressure	4	*For* "29·317" *read* "29·317".
lxii	Do	B	Purnea	Do	5 and 6	*For* "+0·70 and 29·933" *read* "+0·68 and 29·931," respectively.
lxiii	Do	B	Daltonganj	Rainfall	50	*For* "1·35" *read* "1·33".
lxv	Do	B	Rawalpindi	Do	49	*For* "+3·80" *read* "+4·80".
lxv	Do	B	Montgomery	Do	49	*For* "+0·80" *read* "1·80".
lxviii	Do	B	Pudukkottai	Temperature of air	15, 17, 19, 22 and 24	*For* "73·5, 24·2, 23·6, 65·2 and 35·2" *read* "74·2, 25·3, 23·1, 65·9, and 35·0," respectively.
lxix	Do	B	Periyakulam	Wind velocity	26	*For* "3·1" *read* "3·4".
lxix	Do	B	Do	Rainfal	50	*For* "2·35" *read* "2·29".
lxix	Do	B	Pudukkottai	Wind velocity	26	*Insert* "3·3".
lxx	Do.	B	Parachinar	Temperature of air	24	*For* "38·9" *read* "34·9".
lxx	Do.	B	Kailang	Pressur	2	*For* "29·929 ††" *read* "29·933 ††".

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TABLES A, B AND C.

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
lxxi	March 1907.	B	Chaman	Wind direction	35 to 38	Reject all the readings.
lxxi	Do	B	Do	Wind steadiness	39 and 40	Reject all the readings.
lxxi	Do	B	Pata Chiuar.	Wind velocity	36	*For* " 12·7 " *read* " 5·2 ."
lxxi	Do	B	Kailang	Wind Velocity and Rainfall.	36 and 53	*For* " 0·3 and 18·26 " *read* " 2·8 and 17·68 " respectively.
lxxi	Do	B	Do	Rainfall	51, 52, 54 and 55	*Insert* " 3·78, +2·24, 10·60 and +7·38 ", respectively.
lxxii	Do	B	Beirut	Pressure	6	*Insert* " 29·984 ."
lxxii	Do	B	Do	Do	4 and 7 to 13	Omit.
lxxiii	Do	B	Minicoy	Wind velocity	38	*For* " +5·3 " *read* " —0·2."
lxxiii	Do	B	Tehran	Rainfall	51, 53, 54 and 55	*Insert* " 2·80, —1·60, 6·28, and +0·14 ", respectively.
lxxiii	Do	B	Zanzibar	Wind direction	30	*For* " 1 " *read* " 4 ."
lxxvii	Do	C	Fraserganj	Rainfall	38 and 41	*For* " 3 and 5·28 " *read* " 5 and 5·73 ", respectively.
lxxvii	Do	C	Do	Do	44	*Insert* " 0·30 ."
lxxx	April 1907	A	Pudukkottai	Temperature of air	11, 12, 14, 15 and 18	*For* " 76·3, 19·6, 70·8, 30·5 and 86·1 " *read* " 76·9, 16·0, 71·4, 24·3 and 86·4 " respectively.
lxxxvii	Do	B	Monywa	Rainfall	51 and 52	*Insert* " 0·71 and +0·36 " respectively.
lxxxvii	Do	B	Dibrugarh	Do	Do	*Insert* " 9·76 and 2·76 " respectively.
lxxxvii	Do	B	Sibsagar	Do	51 and 52	*For* " ·50 and —3·6 " *read* " 9·50 & —3·67 " respectively.
lxxxvii	Do	B	Tezpur	Rainfall	27, 51 and 52	*Insert* " 5·52 and —1·11 ", respectively.
lxxxvii	Do	B	Gauhati	Do	51 and 52	*Insert* " 5·87 and +3·70 " respectively.
lxxxviii	Do	B	Purnea	Pressure	5 and 6	*For* " +.045 and 29·601 " *read* " +0·45 and 29·799 " respectively.
xci	Do	B	Multan	Rainfall	52	*For* " +0·93 " *read* " +0·99."
xci	Do	B	Sambhar	Do	52	*For* " 0·45 " *read* " +0·45 ."
xciv	Do	B	Pudukkottai	Temperature of air	15, 17, 19, 22 and 24	*For* " 76·3, 86·1, 19·5, 70·8 and 30·3 " *read* " 76·9, 86·4, 18·9, 71·4 and 29·3 " respectively.
xcvi	Do	B	Car Nicobar	Pressure	4 and 6	*For* " 29·884 and 29·8361 " *read* " 29·996 and 29·838 " respectively.
xcvii	Do	B	Kailang	Do	4	*For* " 20·99 " *read* " 20·979 ."
xcvii	Do	B	Chaman	Rainfall	49	*For* " —0·40 " *read* " +0·40 ."
xcvi	Do	B	Do	Wind direction and steadiness.	25 to 34 and 39 & 40	Reject all the readings.
xcvi	Do	B	Shillong	Rainfall	51 and 52	*Insert* " 4·29 and +1·27 " respectively.
xcvii	Do	B	Cherra Poonjee	Do	51 and 52	*Insert* " 32·93 and —5·84 " respectively.
xcvii	Do	B	Maymyo	Do	51 and 52	*Insert* " 2·80 and —2·40 " respectively.
xcvii	Do	B	Ootacamund	Do	51, 52, 54 and 55	*Insert* " 3·46, +0·45, 6·84 and +3·60 " respectively.

Corrigenda in the India Monthly Weather Reviews for the year 1907—*contd.*

TABLES A, B AND C.

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
xcvii	April 1907	B	Kodaikanal	Rainfall	51, 53 54 and 55	*Insert* "5·20, +0·97, 17·10 and —1·99," respectively.
xcviii	Do	B	Muscat	Temperature of air	20	*For* "12·3" *read* "102·3."
xcix	Do	B	Pharijong	Cloud	45	*For* "9" *read* "3·0."
cii	Do	C	Fraserganj	Wind direction	21 and 25	*Insert* "30 and S" respectively.
ciii	Do	C	Do	Wind steadiness	30	*Insert* "100."
cvi	May 1907	A	Pudukkottai	Temperature of air	11, 12, 14, 15 and 16	*For* "77·7, 23·2, 70·3, 24·5 and 883" *read* "73·6, 22·8, 71·2, 33·6 and 89·8", respectively.
cxi	Do	B	Rajputana	Rainfall	18 and 20	*For* "0·40 and —0·01" *read* "0·42 and +0·01", respectively.
cxiv	Do	B	Purnea	Pressure	5 and 6	*For* "+·011 and 29·699" *read* "+·009 and 29·697" respectively.
cxv	Do	B	Allahabad	Rainfall	81 and 83	*For* "0·69 and —0·27" *read* "0·29 and —0·23" respectively.
cxviii	Do	B	Bombay	Number of sub-division	1	*For* "23" *read* "26."
cxx	Do	B	Pudukkottai	Temperature of air	15, 17, 19, 22 and 24	*For* "77·8, 89·4, 23·1, 70·4 and 34·4" *read* "73·6, 89·6, 22·3, 71·2 and 33·6", respectively.
cxxii	Do	B	Car Nicobar	Pressure	4 and 6	*For* "29·278 and 29·231" *read* "29·277 and 29·229" respectively.
cxxii	Do	B	Do	Temperature of air	12, 13, 17 and 19	*For* "81·2, 85·7, 80·9 and 9·6" *read* "81·2, 85·8, 81·0 and 9·7" respectively.
cxxii	Do	B	Chitral	Pressure	4, 9, 10 and 11	*For* "25·136, 24·960, 25th and 330" *read* "25·147, 24·990, 30th and 300," respectively.
cxxiii	Do	B	Car Nicobar	Wind velocity and humidity,	31, 36 and 41	*For* "21, 87 and 88" *read* "32, 36 and 87" respectively.
cxxiii	Do	B	Chaman	Wind direction and steadiness.	35 to 24 and 39 to 40	Reject all the readings.
cxxiv	Do	B	Gyantse	Pressure	4	*For* "18·600" *read* "18·603."
cxxiv	Do	B	Pharijong	Do	4, 7, 8 and 11	*For* "17·668, 17·656, 17th and ·261" *read* "17·677, 17·951, 26th and ·266" respectively.
cxxiv	Do	B	Gangtok	Do	4, 7, 8, 9, 10 and 11	*For* "24·403, 24·581, 10th, 24·319, 30th and ·322" *read* "24·397, 24·479, 14th and 31st, 24·215, 1st and ·264" respectively.
cxxiv	Do	B	Kabul	Pressure	4, 6, 9, 10 and 11	*For* "24·346,†† 24·215, 24·078, 29th and ·274" *read* "24·243, 24·213, 24·055, 30th and ·292" respectively.
cxxiv	Do	B	Perim	Do	4 to 11th	Omit the figures given in the columns.
cxxv	Do	B	Mithkot	Rainfall	50, 52, 53 and 55	*For* "2·95, —3·45, 2·95 and —3·45" *read* "3·09, —3·27, 3·08 and —3·37," respectively.
cxxix	Do	C	Fraserganj	Wind steadiness	30	*For* "10" *read* "100."
cxxix	Do	C	Do	Rainfall	47	*For* "1·5" *read* "1·05."
cxxix	Do	C	Pishin	Do	43 and 45	*For* "0·19 and —0·19" *read* "—0·19 and 0·19," respectively.
cxxxii	June 1907	A	Pudukkottai	Temperature of air	11, 12, 14, 15 and 16	*For* "77·4, 21·6, 74·7, 29·9 and 88·2" *read* "72·7, 20·3, 76·0, 27·6 and 86·2," respectively.
cxxxvii	Do	B	Central Provinces	Rainfall	19 and 20	*For* "6·45 and —0·43" *read* "6·56 and —0·34," respectively.

Corrigenda in the India Monthly Weather Reviews for the year 1907—*contd.*

TABLES A, B AND C.

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
cxl	June 1907	B	Purnea	Pressure	5 and 6	*For* "—·004" and 29·564" *read* "—·006" and 29·562" respectively.
cxlii	Do.	B	Jhansi	Elevation	3	*For* "855" *read* "835".
cxlv	Do.	B	Sconi	Rainfall	5	*For* "10·3" *read* "10·63".
cxlvi	Do.	B	Pudukkottai	Temperature of air	15, 17, 19, 2 and 24.	*For* "77·4, 88·2, 21·6, 74·7 and 28·9" *read* "78·7, 88·9, 20·3, 76·0 and 27·6," respectively.
cxlix	Do.	B	Slipper Island	Rainfall	50 and 53	*For* "7·38 and 9·68" *read* "8·48 and 10·78" respectively.
cxlix	Do.	B	Chaman	Wind direction	25 to 30	Reject all the readings.
cxlix	Do.	B	Do.	Wind Steadiness	39 and 40	Ditto.
clviii	July 1907	A	Udaipur	Pressure	5	*For* "27·64" *read* "27·640".
clviii	Do.	A	Mysore	Temperature of air	13 and 14	*For* "69·8 and 85·8" *read* "89·8 and 65·8" respectively.
clviii	Do.	A	Pudukkottai	Do.	11, 12, 14, 15 and 19.	*For* "77·2, 19·5, 73·0, 26·1 and 88·9" *read* "78·2, 18·5, 75·5, 24·5 and 87·5," respectively.
clviii	Do.	A	Leh	Do.	16	*For* "62" *read* "62·9".
clix	Do.	A	Jaipur	Rainfall	53 and 54	*For* "0·35 and 0·26" *read* "5·49 and 3·43" respectively.
clix	Do.	A	Buldana	Do.	53	*For* "7·6" *read* "7·61".
clix	Do.	A	Pudukkottai	Vapour	27	*For* "·724" *read* "·690".
clxi	Do.	A	Pachmarhi	Cloud	35	*For* "7·" *read* "7·2".
clxiii	Do.	B	Central Provinces	Rainfall	18 and 20	*For* 9·25 and —3·70" *read* "9·31 and —3·64," respectively.
clxvi	Do.		Puri	Temperature of air	12	*For* 88·5" *read* "83·5".
clxvi	Do.	B	Purnea	Pressure	5 and 6	*For* "—·008 and 29·540" *read* "—·010 and 29·538," respectively.
clxviii	Do.	B	Jhansi	Elevation	3	*For* "859" *read* "835".
clxxi	Do.	B	.....	Rainfall	55	*For* "July 1907" *read* "31st July 1907,".
clxxii	Do.	B	Pudukkottai	Temperature of air	15, 17, 19, 22 and 24.	*For* 77·2, 87·0, 19·5, 73·9 and 26·1" *read* "78·2, 87·5, 18·5, 74·9 and 25·1" respectively.
clxxv	Do.	B	Chaman	Wind direction	25 to 34	Reject all the readings.
clxxv	Do.	B	Do.	Wind steadiness	39 and 40	Reject all the readings.
clxxviii to clxxxviii	August 1907	A	.....	.....	.....	*For* "37 stations" *read* "38 stations" in headings of Table A.
clxxxiv	Do.	A	Pudukkottai	Temperature of air	11, 12, 14, 15 and 18.	*For* "76·2, 19·7, 70·8, 28·5 and 86·2" *read* "76·2, 19·2, 71·3, 28·0 and 86·6 respectively.
clxxxv	Do.	A	Allahabad	Cloud	34	*For* "7·8" *read* "7·7".
clxxxix	Do.	B	Sind	Hygrometry	15	*For* "—·001" *read* "+·008".
Do.	Do.	B	Rajputana	Rainfall	18 and 20	*For* "12·10 and + 5·74" *read* "12·07 and + 5·71" respectively.
Do.	Do.	B	Central Provinces	Rainfall	18, 19 and 20	*For* "13·96, 10·39 and + 3·57" *read* 13·99, 10·36 and + 3·63" respectively.

Corrigenda in the India Monthly Weather Reviews for the year 1907—*concld.*

TABLES A, B AND C.

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column.	Correction.
cxci	August 1907	B	Moulmein	Rainfall	31	For "·63" *read* "30·63".
cxcii	Do.	B	Chaibassa	Elevation	3	*For* "760" *read* "733".
cxcviii	Do.	B	Pudukkottai	Temperature of air	15, 17, 19, 22 and 24.	*For* "76·3, 86·2, 19·2, 70·8 and 29·8" *read* "76·8, 86·5, 19·4, 71·3 and 28·7", respectively.
cci	Do.	B	Chaman	Wind direction	25 to 34	Reject all the readings.
cci	Do.	B	Do	Wind steadiness	39 and 40	Reject all the readings.
ccciii	Do.	B	Pachmarhi	Rainfall	53 and 55	*For* "49·22 and —7·99" *read* "51·29 and —5·92," respectively.
ccvii	Do.	C	.....	.....	.....	*For* page mark "ccvi" *read*," ccvii".
ccvii	Do.	C	Tura	Cloud	36	Insert "6·6".
ccx	September 1907	B	Pudukkottai	Temperature of air	11, 13, 16, 18 and 18.	*For* "76·9, 30·9, 72·8, 28·0 and 87·8" *read* "77·6, 20·2, 73·6, 28·2 and 87·7" respectively.
ccxviii	Do.	B	Chaibassa	Elevation	3	*For* "760" *read* "733".
ccxxvi	Do.	B	Pudukkottai	Temperature of air	15, 17, 19, 22 and 24.	*For* "76·9, 87·3, 20·7, 73·8 and 28·9" *read* "77·6, 87·6, 20·0, 73·5 and 28·2" respectively.
ccxlviii	October 1907	B	Chaibassa	Elevation	3	*For* "760" *read* "733".
ccliv	Do.	B	Periyakulam	.....	.....	Omit the whole observations.
ccliv	Do.	B	Pudukkottai	Temperature of air	15, 17, 19, 22 and 24.	*For* "74·6, 82·4, 15·5, 70·7 and 27·6" *read* "75·5, 82·6, 14·6, 71·6, and 28·7" respectively.
cclvii	Do.	B	Chaman	Wind direction	25 to 34	Reject all the readings.
cclvii	Do.	B	Do.	Wind steadines	39 and 40	Reject all the readings.
cclxiii	Do.	C	Bidjand	Cloud	36	*For* "1" *read* "1·2".
cclxxiv	November 1907	B	Chaibassa	Elevation		*For* "760" *read* "733".
cclxxx	Do.	B	Periyakulam	.....	.....	Omit the whole observations.
cclxxx	Do.	B	Pudukkottai	Temperature of air	15, 17, 19, 22 and 24.	*For* "71·5, 78·7, 14·4, 68·9 and 22·7" *read* "72·6, 79·3, 13·9, 70·0 and 21·6" respectively.
cclxxxiii	Do.	B	Chaman	Wind direction	25 to 34	Reject all the readings.
cclxxxiii	Do.	B	Do	Wind steadiness	39 and 40	Reject all the readings.
ccxciii	December 1907	A	Dehra Dun	Rainfall	53 and 54	*For* "0 and 0" *read* "0·10 and 0·10".
ccevi	Do.	B	Hassan	Pressure	6	*For* "30·071?" *read* "30·009".
ccevi	Do.	B	Periyakulam	.....	.....	Omit the whole observations.
ccevi	Do.	B	Pudukkottai	Temperature of air	15, 17, 19, 22 and 24.	*For* "68·1, 77·4, 18·6, 61·9, and 31·7" *read* "60·4, 73·0, 17·2, 63·2 and 30·4" respectively.

G. C. B. Press, Simla.—No. 361 M. R. I.—16-11-08.—405.—N. C.

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Part III, comprising—
Discussion of the comparative hourly meteorological observations recorded at Trivandrum, Kalliad, Vannatheertham and Agustia for the periods 23rd March to 20th April, 1857, 20th January to 19th February, 1859, 9th September to 8th October, 1864, and 2nd to 28th January, 1865, and at Charatha and Kamala from 20th January to 19th February, 1859. Price Rs. 2* Ditto.

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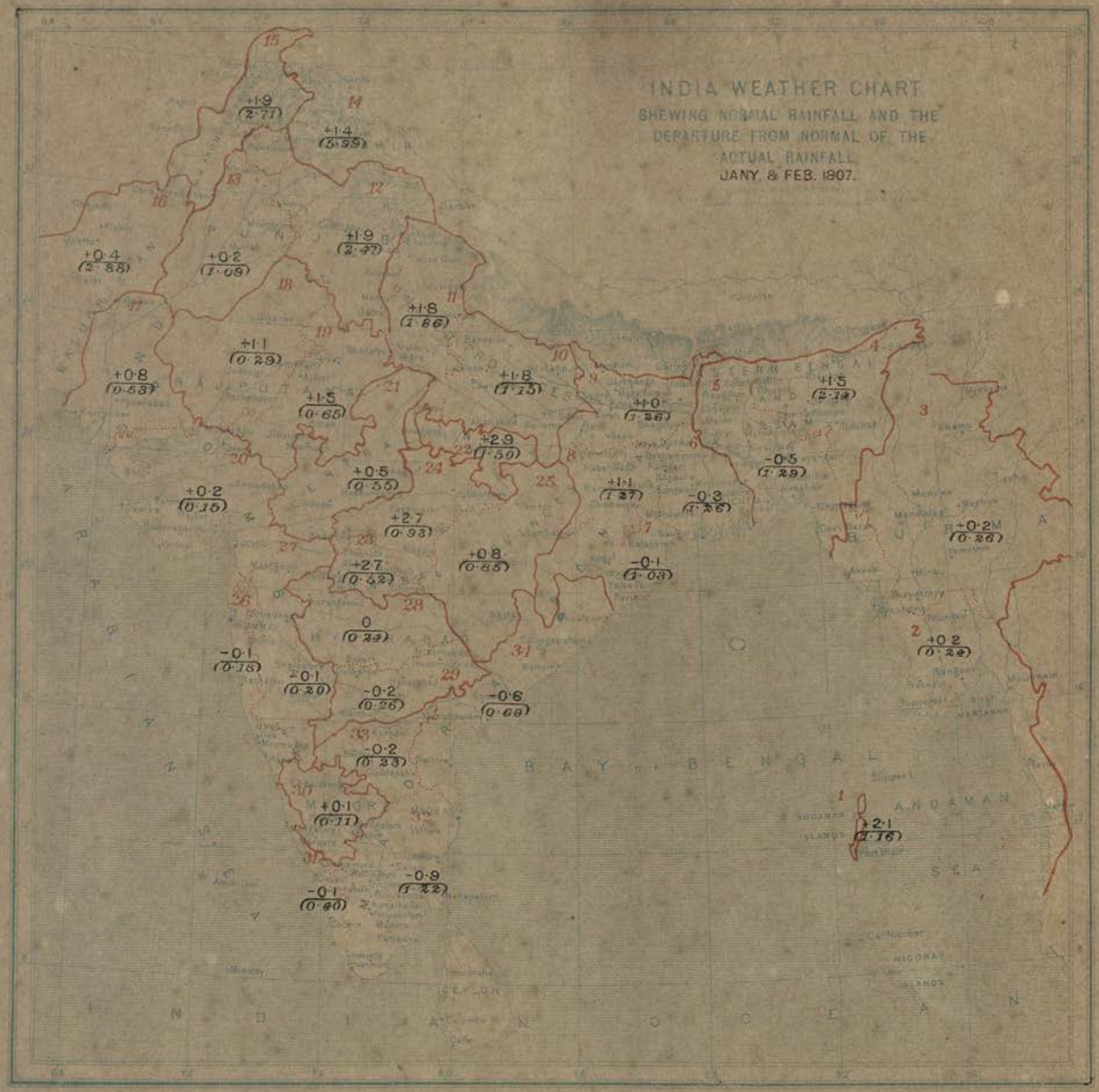
† These volumes are in preparation. ‡ This part is in press for publication.

The country is divided into 34 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas.

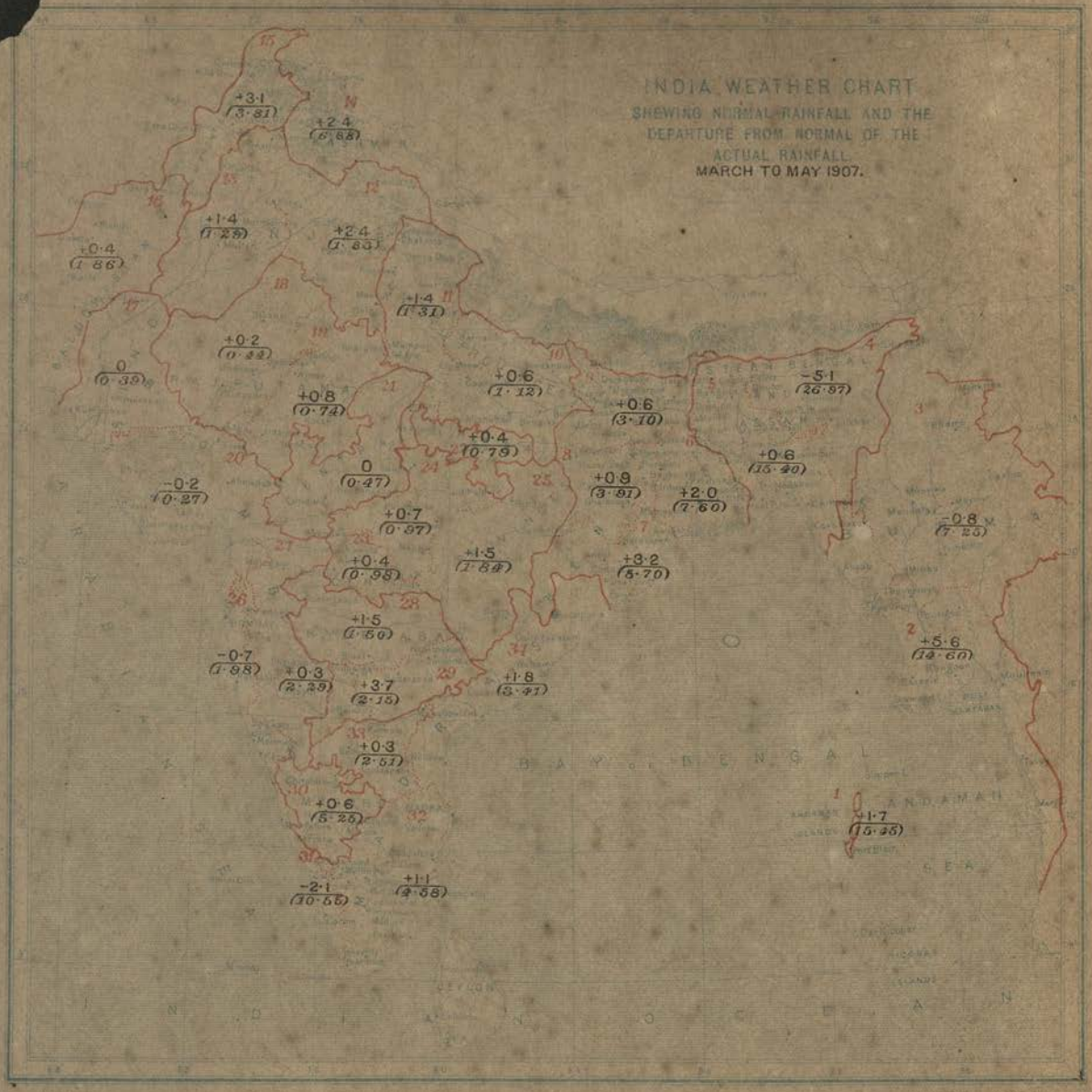
1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Eastern Bengal
6. Bengal
7. Orissa
8. Chota Nagpur
9. Bihar
10. United Provinces, East
11. Do., West
12. Punjab, East and North
13. Do., Southeast
14. Kashmir
15. Northwest Frontier Province
16. Baluchistan
17. Sind
18. Rajputana, West
19. Rajputana, East
20. Gujarat
21. Central India, West
22. Do., East
23. Berar
24. Central Provinces, West
25. Do., East
26. Konkan
27. Bombay, Deccan
28. Hyderabad, North
29. Do., South
30. Mysore
31. Malabar
32. Madras, Southeast
33. Madras, Divecm
34. Madras Coast, North



LITHO BY S.S.M.

The country is divided into 34 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands.
2. Lower Burma.
3. Upper Burma.
4. Assam.
5. Eastern Bengal.
6. Bengal.
7. Orissa.
8. Chota Nagpur.
9. Bihar.
10. United Provinces, East.
11. Do., West.
12. Punjab, East and North.
13. Do., Southwest.
14. Kashmir.
15. Northwest Frontier Province.
16. Baluchistan.
17. Sind.
18. Rajputana, West.
19. Rajputana, East.
20. Gujarat.
21. Central India, West.
22. Do., East.
23. Berar.
24. Central Provinces, West.
25. Do., East.
26. Konkan.
27. Bombay, Deccan.
28. Hyderabad, North.
29. Do., South.
30. Mysore.
31. Malabar.
32. Madras, Southeast.
33. Madras, Deccan.
34. Madras Coast, North.



LITHO. BY S. S. M.

The country is divided into 31 areas as shown in the list below. The numbers in that list correspond with the red numbers on the chart and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall; the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1.	Bay Islands.	10.	United Provinces, East.	19.	Rajputana, East.	28.	Hyderabad, North.
2.	Lower Burma.	11.	Do. West.	20.	Punjab.	29.	Do. South.
3.	Upper Burma.	12.	Punjab, East and North.	21.	Central India, West.	30.	Mysore.
4.	Assam.	13.	Do. Southern.	22.	Do. East.	31.	Malabar.
5.	Eastern Bengal.	14.	Kashmir.	23.	Bombay.	32.	Madras, Southeast.
6.	Bengal.	15.	Northwest Frontier Province.	24.	Central Provinces, West.	33.	Madras, Deccan.
7.	Orissa.	16.	Baluchistan.	25.	Do. East.	34.	Madras Coast, North.
8.	Chota Nagpur.	17.	Sind.	26.			
9.	Bihar.	18.	Rajputana, West.	27.	Hyderabad, Deccan.		

ANNUAL SUMMARY, 1908.

INTRODUCTION.

Several systems of territorial division of India have come into use from time to time for meteorological purposes, each having been adopted to meet the needs of some particular set of data. A certain amount of confusion had been found to result from the consequent want of uniformity of boundaries, and, with a view of obviating the inconvenience caused, the Government of India in 1907 authorised the adoption of the following systems of division :—

Chief political divisions.	Sub-divisions.
	Bay Islands.
Burma	Lower Burma.
	Upper Burma.
Eastern Bengal and Assam	Assam.
	Eastern Bengal.
Bengal	Bengal.
	Orissa.
	Chota Nagpur.
	Bihar.
United Provinces	United Provinces, East.
	United Provinces, West.
Punjab	Punjab, East and North.
	Punjab, Southwest.
	Kashmir.
North-West Frontier Province	North-West Frontier Province.
	Baluchistan.
Sind	Sind.
Rajputana	Rajputana, West.
	Rajputana, East.
Bombay	Gujarat.
	Konkan.
	Bombay Deccan.
Central India	Central India, West.
	Central India, East.
Central Provinces	Berar.
	Central Provinces, West.
	Central Provinces, East.
Hyderabad	Hyderabad, North.
	Hyderabad, South.
Mysore	Mysore.
Madras	Malabar.
	Madras, Southeast.
	Madras Deccan.
	Madras Coast, North.

The system of division is illustrated in Plate I at the end of this Annual Summary, and its relationship to the old system of divisions which was adopted for the tables of the 'Geographical Summary' given in former issues can be obtained by reference to pages 9 to 14 of Volume III of the Indian Meteorological Memoirs.

The data of Table B in the monthly reviews and in the present annual part are obtained, with a few exceptions, from the observations telegraphed daily to Simla for publication in the Daily Weather Report. In the case of thermometric observations, they are telegraphed to the nearest half degree. Hence the maximum and minimum temperature data of the second class observatories derived from these telegraphic reports and given in Table B, occasionally differ to some slight extent from the means of the more exact data (recorded to the tenth of a degree) tabulated in the observation forms sent to the Calcutta Office, and used in the calculation of the mean temperature data in Table A. There is also another reason why the data of mean maxima and minima in Tables A and B differ to a slight extent. In Table B the daily or 24 hour period is assumed to end at 8 hrs. and in Table A at midnight [except for rainfall the period of which ends at 8 hrs.], and hence the maximum temperature in Table B for any month of 31 days at any station gives the mean for 31 periods of 24 hours ending at 8 hrs. of the 31st, and in Table A for the same number of 24 hour periods ending at midnight on the 31st, and hence virtually of a monthly period one day in advance of the former. Similarly for months of 28, 29 or 30 days. These remarks will explain some of the slight discrepancies which may be found between the maximum and minimum temperature mean data in Tables A and B, and hence also in the monthly mean departure data given in these tables in the monthly reviews and annual summary.

Solar, Magnetic and Seismic Activity.

Report from Kodaikanal Observatory.

The observing weather did not differ much from that of the preceding year except in November when unusually fine weather prevailed and visual prominence observations were made on 27 days. There were, however, 20 days in the year when no solar observations were possible as against 13 in 1907. The following table shows for each month the observations that were made.

TABLE I.

—	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
A	29	27	31	30	31	28	28	29	29	26	27	29	344
B	8	5	1	16	14	7	4	11	8	3	10	9	96
C	28	27	29	30	31	22	14	25	27	21	27	29	310
D	29	27	31	30	31	25	27	28	29	25	27	29	338
E	29	27	31	30	31	25	26	29	28	25	27	28	337

A: spots observed; B: spot spectra observed; C: prominences observed; D: photoheliograms taken; E: spectroheliograms taken.

Sunspots.—There was a considerable fall in spot activity in the year under report, there having been only 262 new groups with a daily average of 3·9, against 301 and 4.6 in 1907. The maximum daily average in any one month was 5·3 in April, as against 7·1 in February 1907 and 7·2 in July 1906.

On four days the sun's surface was quite free from spots at the time of observation. The lower spot activity is also indicated by the fact that there were fewer returns of old spots and only one returned for a second time; in the previous year there were many returns and one of them came round five times.

During the whole of 1906 northern groups were far more abundant than southern ones and this state continued till March 1907. In April the southern groups preponderated and have continued to do so except in September and October 1907, and June, October and December 1908. In April, groups were nearly three times as numerous in the south as in the north.

The mean latitude of the spots varied somewhat irregularly from month to month but the mean latitude for 1908 was less than for 1907. The change was from 10°·9 in the northern hemisphere and 12°·4 in the southern in 1907, to 9°·9 in the northern and 10° 7 in the southern in 1908. This change is normal for this epoch in the spot cycle.

The following table shows the monthly number of new groups observed, the mean daily number of spots visible, and the distribution between the northern and southern hemispheres:—

TABLE 2.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
New groups	24	17	16	35	26	19	23	26	21	15	19	21	262
Daily number	3·5	3·4	2·7	5·3	4·4	3·3	3·5	5·0	5·0	2·9	3·6	3·7	3·9
North	11	6	4	9	9	11	8	12	11	8	9	13	110
South	13	11	12	26	17	8	15	14	10	7	10	9	152

Prominences.—Prominences were recorded visually on 310 days, against 305 in 1907. On 48 days the combined visual and photographic record was imperfect owing to unfavourable weather conditions. The year as a whole was one of great activity. The mean profile area for the first six months reached 6·67 square minutes per diem, this being considerably in excess of any previous estimates. During the second half of the year the mean area fell to 3·93 square minutes per diem.

The general activity of the two hemispheres compared with the previous year is given in the following table :—

Mean daily profile areas of Prominences.

	1907. Square minutes.	1908. Square minutes.
North ...	1·92	2·41
South ...	2·27	2·98
Total ...	4·19	5·39

The unsymmetrical distribution of the prominences in the two hemispheres noticed in the last report has continued and the southern polar region has produced many large prominences; the activity of this region however showed a marked decrease in the later months of the year.

There were two zones of great activity in the northern hemisphere, in latitudes 10° to 15° and 30° to 35°, whilst south of the equator the greatest activity was in the zone 15° to 20°, with a secondary maximum between 45° and 55°.

Metallic prominences were far more numerous in the southern hemisphere than in the northern and they extended over a greater range of latitude in the south than in the north.

The mean and extreme latitudes observed are given in the following table :—

TABLE 3.

—	Number observed.	Mean * latitude.	Extreme latitudes.
North	23	14°·6	3° 34°
South	58	16°·8	2° 50°

There were in addition to the above three metallic prominences recorded in high latitudes; one in the north in latitude + 69° and two in the south in latitudes — 58° and — 78°.

The prominence activity in each month may be estimated from the following table :—

TABLE 4.

Month.	Prominences one minute or more in height.	* Metallic prominences.
January	71	21
February	53	8
March	69	12
April	88	16
May	67	9
June	33	3
July	27	...
August	48	4
September	25	...
October	42	2
November	52	6
December	39	3

The usual apparent deficiency of metallic and tall prominences during the monsoon months is evident, but November having been exceptionally fine, as noted above, does not show this deficiency.

C. MICHIE SMITH,
Director,
Kodaikanal and Madras Observatories.

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The Alibagh (Bombay) Magnetic Record.

The mean values of the magnetic elements obtained from all days in the year are as follow :—

Mean easterly declination	...	... 1° 2′ 15″.
Horizontal force	...	... 0·36357 C.G.S. unit.
Vertical force	...	... 0·15922 „ „
Inclination (calculated)	...	... 23° 21′·8.
Inclination (observed twice a week)		... 23° 21′·1.

During the year there were 135 calm days, 199 days of small, 26 days of moderate, and 6 days of great disturbance. The same for the year 1907 were 122, 211, 29 and 3 respectively.

The largest disturbance during the year was recorded on the 12th September. It commenced first as an increasing disturbance a little after noon on the 11th September, and the small but active movements continued till about 2·6 hours of the 12th. Continuous with these movements appears the large decreasing disturbance with the distinctive features usually associated with solar disturbances, a sudden abrupt rise (in this disturbance equal to about 120 γ) and a rapid fall thereafter. The greatest effect of the disturbance was reached when the force indicated its lowest value at about 10 hours on the 12th corresponding to a fall of about 415 γ. After this the restitution to normal conditions began by irregular fine movements of very small period. Normal conditions were reached by about the midnight of the 12th.

The following is a list of days selected as 'quiet' for the purposes of the Magnetic Survey of India during the year :—

TABLE 5.

1908.	Selected 'quiet' days.				
January	1	14	17	20	26
February	2	14	15	19	21
March	6	14	15	18	24
April	2	10	13	20	30
May	6	15	16	19	23
June	5	10	11	23	28
July	2	8	14	23	31
August	5	6	16	24	27
September	1	14	15	21	26
October	9	10	11	23	25
November	4	5	16	23	27
December	2	11	16	21	28

The following table prepared in accordance with the suggestions made by the International Commission, Terrestrial Magnetism, represents the magnetic character of each day during the year :—

TABLE 6.

1908.	MONTH.											
Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	0	0	1	1	1	1	0	1	0	1	1	0
2	1	0	1	0	2	1	0	1	0	1	1	0
3	1	2	1	0	1	2	0	1	1	1	1	1
4	1	1	1	0	1	1	0	1	1	1	0	2
5	1	1	1	1	1	0	1	0	2	2	0	1
6	1	2	0	2	0	1	1	0	2	1	0	1

TABLE 6—*concld.*

1908.	MONTH.											
Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
7	1	1	1	1	0	0	1	1	1	1	1	1
8	1	1	2	1	1	1	0	1	2	1	2	1
9	2	1	1	0	0	0	0	2	1	0	1	0
10	0	1	1	0	1	0	0	1	1	0	1	0
11	1	1	1	0	1	0	0	1	1	0	1	0
12	1	1	0	0	1	0	1	2	2	2	1	1
13	0	1	0	0	1	1	0	1	1	1	0	1
14	0	0	0	1	1	1	0	1	0	1	1	0
15	1	0	0	1	0	1	1	1	0	1	1	0
16	0	1	1	1	0	0	2	0	2	1	0	0
17	0	1	1	1	1	1	1	1	1	0	2	1
18	0	0	0	1	0	1	1	1	1	1	1	1
19	1	0	1	1	0	1	0	2	1	1	0	1
20	0	0	1	0	0	1	0	1	0	0	1	0
21	1	0	1	1	1	1	0	2	0	0	1	0
22	0	2	0	1	0	0	0	1	1	0	0	0
23	0	1	0	1	1	0	0	0	0	0	0	1
24	1	1	0	1	1	1	1	0	1	0	1	0
25	1	0	1	1	1	1	1	1	1	0	0	1
26	0	1	1	1	2	1	0	1	0	1	0	1
27	1	1	2	1	1	1	0	0	1	1	0	0
28	1	1	1	1	2	0	0	1	2	0	1	0
29	2	1	1	1	1	1	0	1	2	0	1	0
30	1	...	1	0	1	1	0	1	2	0	0	0
31	1	...	1	...	1	...	0	1	...	2	...	0
	22	23	25	21	25	21	11	29	30	21	20	15

In the above table 0 represents calm day.
" " 1 " small disturbance.
" " 2 " larger disturbance.

Table 7 gives the corrected monthly mean absolute values of the several magnetic elements as also the summed ranges of the horizontal force. In table 8 will be found a *list* of seismic disturbances recorded by the Milne's seismograph.

Table 7.—Monthly values of magnetic elements.

Months 1908.	Absolute values of				Horizontal force.	
	Horizontal force in C.G.S.	Vertical force in C.G.S.	Inclination.	Easterly declination.	Summed ranges.	Summed ranges (smoothed.)
			° ′	° ′ ″	C.G.S.	C.G.S.
January .	0·36870	0·15880	23 18·1	1 3 10	·00244	·00317
February .	·36868	·15891	23 19·0	1 2 58	·00292	·00320
March .	·36860	·15908	23 20·7	1 2 58	·00322	·00314
April .	·36858	·15908	23 20·7	1 2 57	·00332	·00308
May .	·36860	·15908	23 20·7	1 2 32	·00310	·00306
June .	·36869	·15919	23 21·2	1 1 45	·00361	·00301
July .	·36868	·15921	23 21·4	1 1 33	·00360	·00298
August .	·36854	·15935	23 22·9	1 1 42	·00312	·00294
September .	·36827	·15945	23 24·6	1 2 4	·00211	·00293
October .	·36817	·15948	23 24·2	1 1 43	·00311	·00294
November .	·36841	·15942	23 23·9	1 1 59	·00259	·00296
December .	·36858	·15937	23 24·5	1 1 35	·00226	·00295

Notes.—Summed range means sum without regard to signs of 24 ordinates of diurnal inequality: smoothed ranges are derived from running means of 12 consecutive monthly means reduced to the proper epoch so as to eliminate the annual variation.

A general fall in the curve of smoothed ranges after the secondary maximum in July 1907 referred to in the last year's report is indicated. A small retardation in the fall exhibited by a peak in February 1908 is the only notable feature of the curve during the year.

Table 8.—Disturbances recorded by Milne's seismograph at Colaba.

No.	Date 1908.	Beginning.	Maximum.	End.	Maximum amplitude.	Duration.
		H. M.	H. M.	H. M.	M.M.	H. M.
9	January 11	3 43·0	4 3·4	5 2·3	3·5	1 19·3
11	„ 12	10 27·9	10 29·5	10 43·1	1·2	0 14·2
15	„ 15	13 16·1	13 41·2	14 14·7	1·1	0 58·6
46	February 9	18 16·9	18 27·8	19 13·4	4·6	0 56·5
79	March 5	2 26·9	2 52·8	3 57·3	1·9	1 30·4
88	„ 13	6 32·7	6 33·5	6 47·1	0·7	0 14·4
99	„ 21	4 18·3	4 25·3	4 30·2	0·5	0 11·4
103	„ 23	12 31·6	12 57·4	13 36·5	0·3	1 4·9
111	„ 26-27	23 24·1	0 31·5	1 47·6	2·3	2 23·5
112	„ 27	4 27·9	5 22·6	6 3·4	0·6	1 35·5
120	April 2	6 2·5	6 23·9	6 41·4	0·4	0 38·9
122	„ 4	6 24·0	6 31·2	6 50·5	0·4	0 26·5
123	„ 10	0 16·1	0 25·0	0 45·0	0·5	0 28·9
135	„ 16	17 45·2	17 50·8	18 11·1	0·3	0 25·9
137	„ 19	8 11·4	8 22·2	8 47·2	0·3	0 35·8
138	„ 23	0 3·3	0 16·5	1 23·1	0·6	1 19·8

Table 8.—Disturbances recorded by Milne's Seismograph at Colaba—concld.

No.	Date 1908.	Beginning.		Maximum.		End.		Maximum amplitude.	Duration.	
		H.	M.	H.	M.	H.	M.	M.M.	H.	M.
151	May 5	6	33·0	6	58·0	7	43·4	2·3	1	10·4
152	„ 5	11	24·9	11	27·9	12	0·6	1·5	0	35·7
163	„ 15	9	20·1	9	34·6	10	18·8	2·4	0	58·7
165	„ 20	7	59·2	8	15·7	8	36·5	0·4	0	37·3
170	June 3	16	0·2	16	3·5	16	31·3	1·0	0	31·1
200	„ 28	17	13·5	17	14·1	17	17·5	0·6	0	4·0
239	July 13	21	44·8	21	49·4	22	6·1	0·5	0	21·3
253	„ 26	16	19·6	16	26·7	16	44·5	0·5	0	24·9
254	„ 26	17	30·5	17	39·1	17	58·4	0·4	0	27·9
292	August 17	11	34·1	11	43·7	13	16·2	1·5	1	42·1
296	„ 20	10	1·7	10	4·6	11	4·3	5·8	1	2·6
301	„ 22	12	13·4	12	13·8	12	20·1	0·3	0	6·7
317	September 9	6	50·8	6	51·2	7	3·5	1·0	0	12·7
332	„ 23	7	13·5	7	19·0	7	42·0	1·1	0	28·5
336	„ 26	6	8·5	6	17·6	6	33·5	0·6	0	25·0
339	„ 28	6	49·3	6	49·5	7	3·3	0·4	0	14·0
343	October 13	6	23·5	6	35·7	7	6·3	0·5	0	42·8
347	„ 20	3	1·3	3	14·4	3	31·4	0·5	0	30·1
350	„ 23	20	20·7	20	24·8	20	32·5	0·6	0	11·8
351	„ 24	21	23·3	21	23·9	21	35·0	0·7	0	11·7
353	November 2	5	22·4	5	35·9	6	43·9	4·2	1	21·5
354	„ 2	7	27·8	7	37·6	7	53·0	0·5	0	25·2
356	„ 6	7	29·0	7	48·4	8	38·9	1·0	1	9·9
357	„ 6	14	28·5	14	35·5	14	58·6	0·5	0	30·1
360	„ 11	13	27·3	13	50·4	14	20·1	2·2	0	52·8
361	„ 12	16	53·0	16	58·0	17	4·0	0·2	0	11·0
362	„ 12	22	6·1	22	16·2	22	21·3	0·3	0	15·2
369	„ 23	12	59·3	13	23·7	13	36·2	0·2	0	36·4
384	December 12	13	0·1	13	10·7	13	55·9	3·4	0	55·8
385	„ 12	19	9·2	19	27·7	19	44·3	0·3	0	35·1
390	„ 18	Lost in shifting time.		15	48·3	16	41·7	3·7	...	
396	„ 28	4	30·3	4	57·3	6	14·0	2·2	1	43·7

All the times given in the above table denote G. M. T.: sensibility to tilt between 1st January and 26th March, 1·0 mm = 0·42".

„ 27th March and 31st December 1·0 mm = 0·41".

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Solar Radiation.

It was stated in the Annual Report of 1889 that the observations of black bulb solar thermometers are liable to large and irregular changes which make them unfit for accurate observations. The instruments were accordingly withdrawn from use, except at the following stations:—

Srinagar.	Allahabad.	Leh.
Simla.	Calcutta (Alipore.)	Ootacamund.
Lahore.	Bombay.	Aden.
Jodhpur.		

Observations of the solar thermometers were made during the year 1908 at all these stations with the exception of Aden where the thermometers were put of use in 1903. The monthly averages of past years and the departures from them of the data of 1908 are given in Tables 9 and 10 and the mean comparative data for the past nineteen years in table 11.

TABLE 9.—*Average excess of mean monthly and annual maximum insolation over the corresponding maximum shade temperature.*

STATION.	Years of observations used.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
		°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	1902-1903	31·9	39·4	44·8	50·3	52·4	51·9	53·1	48·1	44·7	41·7	37·0	31·2	43·9
Simla	1890-1908	61·6	64·7	66·6	68·7	67·9	62·6	49·7	48·1	60·5	70·1	68·1	64·0	63·7
Lahore	1890-1908	47·5	53·1	55·2	56·1	52·5	49·7	51·8	53·9	52·7	51·4	49·1	46·6	51·6
Jodhpur	1897-1908	52·5	54·9	56·8	56·6	54·2	53·4	56·2	56·5	55·7	53·1	51·4	50·4	54·3
Allahabad	1890-1908	57·6	58·2	58·7	57·7	56·7	56·9	57·2	57·1	59·0	55·9	55·7	57·2	57·4
Calcutta (Alipore)	1890-1908	51·1	52·7	53·2	53·4	53·6	51·8	53·2	55·1	55·4	54·3	52·0	51·3	53·1
Bombay	1890-1906	49·7	50·7	50·0	50·2	50·4	45·8	41·6	44·9	48·6	49·6	49·6	49·3	48·4
Leh	1890-1908	65·2	72·8	72·0	70·6	68·4	66·2	64·7	65·1	65·5	66·1	64·7	62·1	67·0
Ootacamund	1903-1908	70·1	71·0	71·8	70·1	68·5	61·6	60·2	64·9	71·1	68·0	69·3	67·9	67·9

TABLE 10.—*Departures from the averages of Table 9 of mean monthly and annual excess of sun over shade temperatures in 1908.*

STATION.	Number of years that the instrument the observations of which are utilized for this comparison has been in use.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
		°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	4	−3·2	−2·3	−2·1	−6·2	−0·9	−10·2	−0·6	−7·5	+1·9	−2·1	−5·9	−3·7	−4·6
Simla	1—2	+2·6	+5·8	+2·7	...	...	...	...	...	...	...	...	...	...
Lahore	23	−5·6	−4·3	−3·3	−5·3	−2·8	−3·4	+2·1	−6·7	−2·1	−3·9	−4·2	−2·1	−3·5
Jodhpur	11	+0·1	−0·5	+0·3	−1·2	−0·6	+0·3	+1·7	−0·3	−1·2	−0·2	−1·4	−0·4	−0·3
Allahabad	6	+1·7	+0·9	+3·3	+2·3	+3·0	+1·3	+3·3	+4·5	+1·9	−0·4	−0·9	−0·7	+1·9
Calcutta (Alipore)	6	−2·6	−1·5	−4·2	−4·1	−3·4	−4·5	+0·1	+3·8	−0·1	−1·1	−1·8	−2·3	−1·8
Bombay	23	−1·1	−3·0	−4·1	−4·1	−2·6	−3·4	−6·8	−6·2	−4·9	−3·0	−2·4	−0·8	−3·5
Leh	13	−10·5	−10·6	−8·9	−10·0	−1·5	−3·6	+0·2	−0·5	−0·2	−4·4	−3·1	−10·6	−5·3
Ootacamund	3	−2·4	−3·9	−3·2	−5·1	−5·4	−6·7	−9·9	−7·3	−4·6	−6·2	−2·3	−4·3	−5·2

TABLE 11.—*Departures from normal of the annual mean excess of sun over shade temperature for each year of the period 1890-1908.*

STATION.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.
	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	...	...	...	...	...	...	...	...	...	...	...	...	−1·8	+0·4	+2·1	−1·1	−2·4	−3·6	−4·6
Simla	+2·0	+2·5	+2·2	+1·6	+0·2	+1·2	+0·2	−1·1	+1·1	+2·7	−3·1	−1·2	−3·0	+6·1	−0·9	+2·5	−2·1	+1·9	?
Lahore	+3·6	+2·9	+3·0	+1·5	+0·7	+0·6	+0·4	+0·6	+0·2	−1·5	−1·1	−2·6	−2·9	−2·6	−3·6	−5·0	−2·7	−3·6	−3·5
Jodhpur	...	...	...	...	...	...	...	+1·7	+0·5	−0·9	−0·6	−0·5	−0·3	−0·3	−0·5	−0·7	−0·3	−0·4	−0·3
Allahabad	+0·9	+0·9	−0·3	−0·1	+0·3	−0·2	+0·6	+1·1	−0·4	−0·7	−0·6	−0·4	−0·7	−0·1	+1·6	+0·4	+0·1	+0·9	+0·9
Calcutta (Alipore)	+1·6	+1·5	+1·5	+0·9	+0·9	+1·3	+0·3	−1·3	+0·8	−2·1	−3·2	−1·6	−0·3	−0·2	−0·6	−0·4	−1·5	−2·1	−1·8
Bombay	+1·5	0	+0·4	+1·0	+0·4	+0·7	+1·0	+1·1	−0·4	−1·1	−1·0	−0·7	−0·9	−1·8	+0·1	+0·1	−2·2	−3·8	−3·5
Leh	?	+5·2	+3·4	+0·4	+1·3	+0·5	−0·2	+0·4	−2·3	−0·2	−2·1	−0·2	−1·6	−2·4	−3·4	−2·3	−3·5	−2·5	−5·3
Ootacamund	...	...	...	...	...	...	...	...	...	...	...	...	...	?	−0·5	...	...	−6·4	−5·2

The following table shows, in absolute measure, the value of solar radiation as measured at Simla by means of Angstrom's electric compensation pyrheliometer :—

TABLE 12.

1908.	Intensity in gramme-calories per sq. cm. per min.			Number of days of observation.
	Maximum	Minimum	Mean	
January	1·54	1·43	1·47	10
February	1·55	1·40	1·47	12
March	1·55	1·36	1·47	12
April	1·49	1·35	1·42	11
May	1·43	1·20	1·33	12
June	1·41	1·13	1·27	13
July	No observations.			
August	No observations.			
September	1·45	1·40	1·42	7
October	1·45	1·38	1·42	8
November	1·47	1·42	1·44	10
December	1·50	1·39	1·46	13

Nocturnal Radiation.

Observations of these instruments were recorded during the year 1908 at the following stations:—

Srinagar.	Jodhpur.	Bombay.
Simla.	Allahabad.	Leh.
Lahore.	Calcutta (Alipore.)	Ootacamund.

The following table, TABLE 13, gives the average data of past years for the above stations; TABLE 14 the departure from the normal; and TABLE 15 the mean annual departure data for the past nineteen years.

TABLE 13.—*Average depression of mean monthly and annual nocturnal radiation temperatures below mean minimum shade temperatures.*

STATION.	Number of years observations used.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	10—15	7·7	8·2	9·3	9·4	9·8	9·7	9·4	8·9	11·8	11·8	11·2	11·1	9·9
Simla	17—18	4·1	3·3	3·4	5·4	4·1	3·5	2·8	2·1	3·3	4·4	4·5	4·3	3·8
Lahore	31—32	9·5	9·2	8·6	9·1	8·8	6·2	3·9	4·1	6·4	9·6	10·5	9·9	8·0
Jodhpur	11—13	9·0	9·0	8·7	7·3	5·1	2·5	1·8	1·9	4·6	9·7	10·8	9·9	6·7
Allahabad	31—32	11·1	11·4	12·5	12·3	9·0	5·1	3·1	2·6	4·2	9·2	12·5	12·4	8·8
Calcutta (Alipore)	31—32	7·6	7·0	5·9	4·5	3·0	2·1	1·8	1·9	2·5	4·5	6·7	8·1	4·6
Bombay	33	9·8	9·1	8·1	6·5	4·6	2·8	2·1	2·4	3·1	6·3	9·6	10·4	6·2
Leh	24—26	9·5	9·0	10·5	11·0	10·8	11·1	9·7	10·2	11·3	14·5	14·7	11·5	11·2
Ootacamund	5—6	7·3	7·4	6·3	5·4	4·6	3·0	2·1	2·8	3·2	3·5	4·5	6·6	4·7

TABLE 14.—*Departures from the averages of Table 13 of mean monthly and annual depression of nocturnal radiation temperatures in 1908.*

STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	+0·8	−0·3	+2·2	+6·9	+5·9	+3·4	+4·0	+3·0	−2·3	+2·0	−0·5	−1·3	+2·0
Simla	−0·8	−0·8	+0·2	−0·7	P	P	P	P	P	P	P	P	P
Lahore	+1·1	+2·0	+2·6	+0·6	+1·4	+2·9	+0·1	−0·6	+0·3	+1·2	+1·9	+2·3	+1·3
Jodhpur	−0·9	+2·7	+4·9	P	+1·3	+2·2	+0·8	+0·7	+2·0	+0·1	+1·2	0	P
Allahabad	+1·4	+0·1	−0·1	−1·9	−0·5	+0·9	−0·7	−0·7	+1·2	+2·5	+2·3	+2·1	+0·6
Calcutta (Alipore)	−1·3	−0·1	+0·4	+0·3	−0·4	+0·3	+0·5	+0·2	−0·2	−0·6	−0·9	−1·6	−0·3
Bombay	−1·0	−2·0	−1·7	−1·1	−0·8	0	+0·5	0	−0·6	−1·7	−1·2	−2·5	−1·0
Leh	−6·9	−3·8	−2·0	−2·9	−2·8	−4·4	−2·7	−5·3	−6·2	−5·7	−3·8	−5·0	−4·3
Ootacamund	+7·1	+7·5	+5·9	+4·1	+4·4	+3·5	+0·9	+1·6	+3·0	+2·1	+5·0	+6·7	+4·3

GCP

TABLE 15.—*Departures from normal of the mean annual depression of nocturnal radiation temperatures.*

STATION.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.
	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	...	...	...	...	...	...	...	...	...	...	...	..	+1·2	0	−1·4	0	+4·4	+1·6	+2·0
Simla	+0·1	−0·1	+1·0	−0·3	−0·7	P	−0·8	+0·8	−0·8	−0·1	+0·5	−0·2	+1·3	−1·2	−0·6	−1·1	−1·4	−0·3	P
Lahore	−1·2	−1·7	−0·9	−0·7	+0·7	+1·0	−0·3	−0·2	+1·0	+2·0	+2·2	+2·0	−1·0	+0·5	+0·4	+1·1	+0·2	+1·3	+1·3
Jodhpur	...	...	...	...	...	...	...	+0·1	0	−0·1	−0·5	−0·1	+1·1	−0·6	−1·4	−0·9	−1·4	+1·1	P
Allahabad	−0·9	−0·6	0	−1·3	−1·2	+0·2	+1·0	+0·1	+1·2	+1·6	−0·9	+0·5	−1·1	+0·5	+0·9	+0·6	+0·2	+1·0	+0·6
Calcutta (Alipore)	−0·3	+0·1	−0·1	−0·5	−0·1	+0·1	+0·4	+0·2	+0·2	−0·2	−2·2	−1·7	+0·7	−1·7	−1·1	−1·6	−1·7	−0·7	−0·3
Bombay	+1·4	+2·5	+0·8	−1·0	−1·8	−1·2	+0·8	−0·3	−1·0	−0·6	−0·7	−1·1	−2·1	−1·2	−0·9	−0·6	−0·8	−0·7	−1·0
Leh	+3·1	+3·4	+2·9	+0·4	−2·3	−2·8	−2·0	−2·4	−0·1	−0·4	−2·1	+0·7	−1·3	P	−1·0	P	−2·7	−4·2	−4·3
Ootacamund	...	...	..	...	...	...	...	...	...	...	...	...	..	...	+0·1	+0·4	−0·4	+0·5	+4·3

Temperature of the ground.

Observations of the temperature of the surface of the ground were recorded during the year 1908 at six stations, Lahore, Jaipur, Dehra Dun, Allahabad, Calcutta (Alipore) and Bombay and of the temperature under ground at Dehra Dun and Bombay.

The thermometers used for the purpose are verified standard mercurial thermometers with attached scales of porcelain, the scale being engraved also on the tube.

At Lahore and Jaipur the surface thermometer is read four times daily, at Allahabad at 6, 14, and 22 hrs., and at Calcutta at 1$ hrs. 45 mins. At Dehra Dun all the five ground thermometers are read at 15 hrs. daily, and at Bombay the two nearest to the surface are read five times a day, the deeper instruments being read once only.

The thermometers below the surface have their bulbs protected with pointed copper shoes which rest on the ground at the bottom of a wooden tube, inserted to the specified depth and projecting six inches above the surface, the upper ends being closed by a cap of metal or wood. Those at depths of three feet or more are attached to the lower ends of stout wooden bars of about half the diameter of the tube. Those at one foot have a brass ring attached to the top of the wooden frame by which they are lifted; and in all these the lower part of the frame around the bulb has been cut away, and the lower end fitted with the copper shoe above mentioned.

The average monthly data are here given at length, but a paper published by Mr. R. L. Jones (Meteorological Memoirs, Vol. XV, Pt. III, 1904) makes it clear that the results of the measurement of underground temperatures lead to inconsistent results when analysed on the lines developed by Lord Kelvin. It may be that this is due to irregularities from percolation of rainfall as well as to imperfections in the mode of measurement.

Under these circumstances a table of departures from the average of past years is more likely to give indications of value than a statement of absolute temperatures recorded; such a table is therefore given below. The number of years included in the averages in the different cases lies between 21 and 27.

TABLE 16.—*Departures from normal of the mean monthly and annual temperatures of the air and of the ground in 1908.*

STATION.		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
Lahore	Air	+2·2	+3·0	−0·1	+0·4	+0·7	+1·6	−1·5	−4·4	−2·5	−0·6	+0·4	+0·1	−0·1
	Surface	+1·0	+1·3	+0·2	+0·3	+1·0	0	−4·7	−10·9	−3·5	+0·6	−1·2	−0·1	−1·3
Jaipur	Air	−0·2	+0·7	−0·3	+0·2	−0·1	+2·0	−2·8	−2·9	−0·8	+1·2	−0·3	−1·1	−0·5
	Surface	+0·5	+1·7	+0·9	+2·8	+0·9	+2·5	−5·7	−5·8	+2·6	−0·3	+0·6	+0·1	+0·1
Dehra Dun	Air	+0·8	+1·7	+0·8	+1·9	−1·4	+2·8	0	−0·6	+0·9	+1·2	+0·2	+0·9	+0·8
	1·1 feet deep	+1·4	+1·6	+2·0	+3·6	+4·3	+4·2	−0·1	−0·4	+1·3	+3·7	+2·6	+2·0	+2·2
	3·2 „ „	+1·7	+1·5	+1·9	+3·7	+3·3	+3·9	+0·4	−0·2	+1·3	+3·1	+2·4	+2·3	+2·1
	6·4 „ „	+1·0	+1·3	+0·8	+2·2	+2·5	+2·9	+1·0	+0·3	+0·5	+1·2	+1·7	+1·6	+1·4
	12·8 „ „	+1·5	+1·3	+1·1	+1·0	+1·1	+1·4	+1·3	+1·2	+0·7	+0·9	+1·3	+1·6	+1·2
	25·6 „ „	+0·5	+0·7	+0·8	+0·5	+0·6	+0·6	+0·8	+1·6	+1·5	+1·2	+1·2	+1·2	+0·9
Allahabad	Air	−2·1	+0·9	−0·8	+3·0	+2·3	+3·3	+0·4	0	+1·2	+0·5	+0·4	−0·6	+0·8
	Surface	−2·3	−0·2	−0·4	+2·9	+2·5	+3·4	+0·3	+1·5	+3·9	−0·7	0	−1·3	+0·8
Calcutta (Alipore)	Air	−1·2	+2·0	+1·7	+4·1	+0·6	+1·0	+0·2	+0·9	+1·0	+1·0	−0·3	−0·5	+0·9
	Surface	+7·5	+7·0	−0·3	+8·4	+0·7	−1·4	−3·1	−0·1	−1·9	−5·4	−4·0	+5·3	+1·0
Bombay	Air	+0·8	+0·3	−1·4	+0·7	−0·3	+1·2	−0·3	−0·4	+1·2	+0·9	−0·9	−1·2	+0·1
	1 inch deep	+0·5	−0·2	−1·6	+0·4	0	+1·4	+0·2	−0·2	+1·1	+0·8	−1·0	−1·7	0
	9 inches „	+2·0	+1·6	0	+1·4	+1·4	+2·5	+2·3	+1·7	+2·4	+2·5	+1·1	+0·3	+1·6
	1 foot 8 inches deep	+3·0	+3·1	+2·0	+2·3	+2·6	+3·0	+3·1	+2·9	+3·0	+3·0	+2·5	+1·7	+2·7
	5 feet deep	+2·6	+2·4	+2·1	+1·9	+2·1	+2·2	+2·4	+2·5	+2·4	+2·6	+2·5	+2·0	+2·3
	11 „ „	+2·3	+2·3	+2·0	+1·7	+1·4	+1·4	+1·6	+1·7	+1·9	+2·2	+1·9	+2·0	+1·9

Temperature.

The methods of exposing the thermometers at observatories in India were described in pages 18-19 of the Annual Report for 1890.

The method of deducing the daily and monthly means from the observed readings of the instruments was described in pages 6 and 7 of the Monthly Weather Review for January 1908.

The departures from normal of the mean temperature of each month given in Table A of the Monthly Weather Reviews are deduced by a comparison of the actual monthly means with the normal monthly means given in the "Indian Meteorological Memoirs," Vol. XVII, pages 16 to 24.

The departures obtained by a comparison of these normal means with the actual monthly means in Table A of the Monthly Weather Reviews for the year are given in Table 17.

In Table B, published in each Monthly Review, the mean temperature of the day is calculated, as in the Daily Weather Report, by the formula:—daily mean $= \frac{\text{maximum} + \text{minimum}}{2}$. It differs from the true daily mean by amounts varying slightly with the season. In Table B of the Monthly Weather Reviews of the year 1908 are given the departures from normal of the monthly means of daily maximum and minimum temperatures, as well as the departures of the monthly means of daily mean temperature given by the formula ½ (maximum + minimum).

Tables 18 to 23 give summaries of the temperature departure data for each month of the year 1908 and for the year. In the first set of Tables (Tables 18, 19 and 20) the departure data are given for the 14 chief political divisions, and in the last three tables (Tables 21 to 23) the data are given for the 34 sub-divisions:—

TABLE 17.—*Departure from normal of monthly and annual mean air temperatures in 1908.*

DIVISION.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
BURMA	Rangoon	+0·5	+0·6	+0·2	+0·3	−1·5	−0·5	−0·1	−0·5	+0·7	+0·8	−1·3	+0·8	0
BENGAL	Calcutta	−1·3	+2·0	+1·7	+4·1	+0·6	+1·0	+0·2	+0·9	+1·0	+1·0	−0·3	−0·5	+0·9
UNITED PROVINCES OF AGRA AND OUDH.	Allahabad	−2·1	+0·9	−0·3	+3·0	+2·2	+2·3	+0·5	0	+1·2	+0·5	+0·4	−0·6	+0·3
	Dehra Dun	+0·3	+1·7	+0·8	+1·9	−1·4	+2·3	0	−0·6	+0·9	+1·2	+0·2	+0·9	+0·3
PUNJAB	Lahore	+2·2	+3·0	−0·1	+0·4	+0·7	+1·6	−1·5	−4·4	−2·5	−0·6	+0·4	+0·1	−0·1
RAJPUTANA	Jaipur	−0·2	+0·7	−0·8	+0·2	−0·1	+2·0	−2·8	−2·2	−0·3	+1·2	−0·3	−1·1	−0·5
BOMBAY	Bombay	+0·8	+0·3	−1·4	+0·7	−0·3	+1·2	−0·3	−0·4	+1·2	+0·9	−0·9	−1·2	+0·1
CENTRAL PROVINCES	Nagpur	−2·5	−0·2	−2·4	+1·4	+1·4	+3·2	−1·1	−1·3	0	−0·3	−1·7	−2·6	−0·6
HYDERABAD	Hyderabad	+0·1	−0·5	−1·1	+2·6	+2·2	+3·0	+0·1	−0·3	−0·6	+0·1	−0·9	−2·0	+0·2
MYSORE	Bangalore	+1·3	+0·2	−0·2	+1·6	−0·4	+1·1	−1·2	−0·1	+1·1	+1·3	+0·4	+0·2	+0·4
	Mysore	+1·2	+0·4	−0·5	+0·3	−1·3	−1·7	−1·6	−1·6	+0·5	+0·9	−0·6	+0·3	−0·2
MADRAS	Madras	+0·3	−0·1	−0·5	+2·0	+1·3	+2·3	+0·2	+0·9	−1·3	−0·1	−3·2	−1·1	+0·2
STATION IN THE BAY	Port Blair	−0·9	−1·7	−1·3	+0·2	−2·0	−1·1	−1·2	−1·4	−1·3	−1·1	−0·9	−0·5	−1·1
KASHMIR	Srinagar	+6·3	+4·9	+2·7	−0·7	−1·5	−0·4	+3·2	+0·3	−0·6	0	+2·9	−1·6	+1·4
	Leh	+6·0	+2·5	+2·6	+0·8	−1·6	−2·7	+0·2	−2·4	−2·7	−1·0	−2·0	+0·4	0

TABLE 17.—*Departure from normal of monthly and annual mean air temperatures in 1908*—concld.

DIVISION.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
BALUCHISTAN	Quetta	+2·7	+1·9	−3·3	+0·8	−1·4	−0·7	+2·6	+3·5	−0·3	?	?	−1·4	?
HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN.	Simla	+4·3	+3·0	−0·6	+1·3	−0·3	+2·6	−0·3	−1·1	+0·4	+0·5	−1·6	−0·2	+0·7
	Chakrata	+3·5	+3·8	+1·3	+1·7	+1·5	+2·6	+0·1	−0·4	+1·8	+2·8	+0·2	+0·4	+1·6
	Katmandu	−0·9	+1·5	+0·8	+4·8	+2·4	+1·5	+1·0	+0·9	+0·5	−0·4	−1·6	−3·8	+0·6
	Darjeeling	+1·1	+2·5	+1·7	+4·3	0	+1·3	+1·1	+1·0	+1·5	+1·0	+1·9	+2·2	+1·6
	Pachmarhi	−1·6	+0·4	−3·1	+0·4	+1·7	+3·1	−0·6	−0·7	+1·2	+0·4	−0·6	−2·3	−0·1
	Mount Abu	−0·8	+0·4	−2·0	−0·9	−1·2	+0·8	−1·5	−0·1	+0·6	−0·6	−0·5	−2·3	−0·7
	Chikalda	−0·6	−0·2	−3·0	+0·5	+0·5	+2·0	−0·6	−0·9	+1·5	+1·2	+0·2	−1·6	−0·1
EXTRA INDIA	Zanzibar	+1·1	−1·0	+0·7	+1·2	−0·6	+0·2	+0·6	+0·7	+0·5	+0·1	+0·7	+1·1	+0·4
	Seychelles	+1·7	+0·4	+2·1	+1·6	+0·9	+1·9	+0·8	+0·7	+0·4	+0·3	+1·9	+0·6	+1·1
	Mauritius	−0·3	−0·9	−0·5	+0·1	+0·3	+1·0	+0·1	+1·1	+0·5	+0·3	−0·1	−0·1	+0·2

TABLE 18.—*Departure of the mean monthly and annual maximum temperature from the normal in the fourteen chief political divisions of India in 1908.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma	−1·0	−0·4	+0·2	+0·4	−0·3	−0·5	+0·3	−0·7	0	−0·4	−3·3	−1·0	−0·6
Eastern Bengal and Assam	−1·4	+0·1	+2·0	+3·7	+0·6	+0·7	0	+1·3	+0·6	+1·2	+0·4	+1·0	+0·9
Bengal	−3·2	−0·2	+0·4	+3·4	+0·8	+1·2	+0·1	+0·2	+0·6	+1·9	+1·3	+0·4	+0·6
United Provinces	−2·1	+1·4	−0·2	+2·9	+1·7	+5·0	+0·3	−0·5	+1·5	+1·9	+1·3	+0·6	+1·2
Punjab	0	+3·0	+0·3	−1·5	−0·6	+3·3	−2·1	−5·5	−3·7	−1·5	−0·8	−1·4	−0·9
North-West Frontier Province	−0·9	+0·2	−1·4	−3·1	−1·9	+2·4	−1·4	−4·0	−7·5	−3·5	−1·5	−3·0	−2·1
Sind	−0·5	+2·8	−1·6	−0·6	+0·5	+1·0	−2·3	−0·7	−2·0	−0·7	−0·6	−1·0	−0·5
Rajputana	−0·2	+2·7	−1·5	+0·4	−0·3	+0·9	−4·2	−5·2	−2·4	−1·9	−1·0	−1·2	−1·2
Bombay	−0·4	+0·3	−1·5	−0·1	−0·4	+1·6	−2·1	−2·0	+0·6	+0·6	+0·1	−0·9	−0·4
Central India	−1·2	+1·1	+2·5	+0·4	+0·4	+3·9	−1·4	−1·9	+0·9	+1·2	+1·1	−0·4	+0·1
Central Provinces	−0·5	+0·3	−2·8	+1·0	+0·6	+3·5	−1·5	−2·5	+0·2	+1·3	+0·8	−1·2	0
Hyderabad	−0·5	0	−1·2	+2·1	+1·0	+3·9	−1·3	−0·6	−2·1	+0·4	+0·2	−2·0	0
Mysore	+0·9	+0·3	−0·5	+1·5	+0·3	+1·8	−2·4	−1·4	+1·3	+2·2	+2·5	+1·3	+0·7
Madras	−0·2	−0·4	−1·0	+1·0	−0·1	+1·3	−0·4	+0·5	−0·9	+0·7	+0·3	−0·1	+0·1

TABLE 19.—*Departure of mean monthly and annual minimum temperature from the normal in the fourteen chief political divisions of India in 1908.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma	+1·7	+0·6	+1·0	+2·3	+0·2	+0·3	+0·5	0	+0·3	+0·5	+0·4	0	+0·7
Eastern Bengal and Assam	−0·6	+0·7	−1·3	+2·2	0	+0·1	−0·2	−0·1	0	−1·0	−1·6	−3·3	−0·4
Bengal	−2·4	0	−0·9	+2·5	+0·3	+0·8	−0·1	−0·1	+0·3	−1·3	−3·5	−3·3	−0·7
United Provinces	−1·2	−0·1	−1·5	+2·6	+0·7	+2·2	−0·3	−0·3	−0·7	−2·0	−1·5	−1·7	−0·3
Punjab	+2·1	+0·9	−1·8	+1·4	0	+1·5	−0·2	−1·2	−1·2	+0·3	+0·7	+0·1	+0·2
North-West Frontier Province	+2·8	+0·7	−1·0	+0·9	−1·4	+0·2	+1·4	−0·3	−0·8	+1·2	+2·2	−0·2	+0·5
Sind	+1·5	−0·8	−2·4	−0·1	−1·5	−0·4	−0·2	+0·9	−0·7	+0·5	+1·2	+1·0	−0·1
Rajputana	+0·2	−1·8	−2·7	+0·7	−0·5	+1·6	−1·5	−0·8	−3·3	−0·9	−2·3	−2·8	−1·2
Bombay	+0·4	−1·5	−2·6	−0·2	−0·8	+0·6	−0·6	−0·2	+0·2	+1·1	−1·4	−2·8	−0·6
Central India	−1·3	−1·2	−2·3	+2·2	+1·1	+2·7	+0·2	+0·6	−0·7	−0·9	+0·1	−2·1	−0·2
Central Provinces	−2·7	−1·0	−3·1	+0·4	+0·8	+1·7	−0·6	−0·2	+0·3	−1·0	−1·9	−3·0	−0·9
Hyderabad	+0·7	−1·6	−1·3	+1·4	+0·7	+1·8	−1·0	−0·2	+0·7	−0·3	−2·7	−3·3	−0·4
Mysore	+1·9	+0·3	−1·1	+0·7	−0·3	0	−0·3	−0·3	+0·6	+0·3	−2·1	−0·8	−0·1
Madras	+0·9	−0·5	−1·1	+1·1	0	+0·6	−0·2	+0·4	0	+0·3	−2·0	−1·3	−0·2

TABLE 20.—*Departure of mean monthly and annual temperature from the normal in the fourteen chief political divisions of India in 1908.*

Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma	+0·4	+0·1	+0·6	+1·4	0	−0·1	+0·4	−0·3	+0·4	+0·1	−1·5	−0·5	+0·1
Eastern Bengal and Assam	−1·0	+0·4	+0·4	+3·0	+0·3	+0·4	−0·1	+0·6	+0·3	+0·1	−0·6	−1·2	+0·2
Bengal	−2·8	−0·1	−0·3	+3·0	+0·5	+1·0	0	0	+0·5	+0·1	−1·1	−1·5	−0·1
United Provinces	−1·7	+0·6	−0·9	+2·8	+1·2	+3·6	0	−0·4	+0·4	0	−0·1	−0·6	+0·4
Punjab	+1·1	+2·0	−0·8	−0·1	−0·3	+2·4	−1·2	−3·3	−2·5	−0·6	−0·1	−0·7	−0·3
North-West Frontier Province	+1·0	+0·5	−1·2	−1·1	−1·6	+1·3	0	−2·2	−4·2	−1·2	+0·4	−1·6	−0·8
Sind	+0·5	+1·0	−2·0	−0·3	−0·5	+0·3	−1·3	+0·1	−1·4	−0·1	+0·3	0	−0·3
Rajputana	−0·1	+0·4	−2·1	+0·6	−0·4	+1·3	−2·9	−3·0	−2·9	−1·5	−1·7	−3·0	−1·2
Bombay	0	−0·6	−2·1	−0·2	−0·6	+1·2	−1·3	−1·2	+0·4	+0·8	−0·7	−1·3	−0·5
Central India	−1·2	·0	−2·5	+1·3	+0·8	+3·3	−0·6	−0·7	+0·1	+0·1	+0·6	−1·3	0
Central Provinces	−1·6	−0·1	−3·0	+0·7	+0·7	+2·6	−1·0	−1·4	+0·3	+0·1	−0·6	−2·1	−0·5
Hyderabad	+0·1	−0·3	−1·8	+1·8	+0·9	+2·3	−1·1	−0·4	−0·7	0	−1·3	−2·7	−0·2
Mysore	+1·4	+0·3	−0·8	+1·1	−0·1	+0·9	−1·4	−0·9	+1·0	+1·3	+0·2	+0·3	+0·3
Madras	+0·3	−0·4	−1·1	+1·0	0	+1·2	−0·3	+0·5	−0·4	+0·5	−0·9	−0·7	0
Mean of India when the size of the above areas is taken into account.	−0·4	+0·2	−1·2	+1·2	+0·2	+1·6	−0·7	−0·9	−0·4	0	−0·7	−1·2	−0·2

TABLE 21.—*Departure of the mean monthly and annual maximum temperature from the normal in 34 sub-divisions of India in 1908.*

Subdivision.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°		°	°	°	°	°	°	°	°	°
1. Bay Islands	−0·7	−2·5	−1·8	+0.1	−2·3	−1·8	−1·3	−1·9	−1·9	−1·3	−1·1	−0·6	−1·4
2. Lower Burma	−0·8	−0·4	−0·1	0	−0·4	−0·4	+0·1	−0·9	+0·3	−0·5	−1·9	−0·3	−0·4
3. Upper Burma	−1·2	−0·3	+0·7	+0·9	−0·2	−0·6	+0·5	−0·3	−0·5	−0·2	−5·3	−1·9	−0·7
4. Assam	−0·8	−0·1	+2·4	+3·8	+0·5	+0·7	−0·9	−0·2	−1·4	−0·5	−1·1	+0·1	+0·2
5. Eastern Bengal	−1·7	+0·2	+1·8	+3·6	+0·6	+0·7	+0·5	+1·9	+1·4	+2·0	+1·0	+1·4	+1·1
6. Bengal	−2·0	+0·9	+2·2	+4·1	+0·4	+0·1	−0·5	+0·2	+0·7	+2·1	+1·6	+1·1	+0·9
7. Orissa	−4·1	−0·5	−0·4	+2·0	+0·2	+0·9	−0·7	−1·8	−0·4	+0·9	+0·7	−0·9	−0·3
8. Chota Nagpur	−2·7	−0·5	+0·2	+3·4	+0·7	+2·5	−0·6	−0·7	+0·2	+1·4	+0·4	−0·6	+0·3
9. Bihar	−4·4	−1·1	−0·6	+3·7	+1·7	+1·9	+2·2	+2·9	+2·0	+3·2	+2·6	+1·4	+1·3
10. United Provinces, East	−2·7	+1·0	−0·5	+3·7	+2·5	+4·6	+1·8	+1·0	+2·1	+2·7	+2·0	+1·2	+1·6
11. Do. do West	−1·5	+1·8	0	+2·2	+1·0	+5·5	−1·1	−2·0	+0·9	+1·2	+0·6	+0·1	+0·7
12. Punjab, East and North	−0·3	+2·9	+0·3	−1·2	−0·3	+3·6	−2·0	−5·5	−2·8	−1·4	−0·5	−1·2	−0·7
13. Punjab, Southwest	+0·6	+3·3	+0·3	−2·5	−1·4	+2·0	−2·3	−5·3	−5·7	−2·2	−1·5	−1·8	−1·4
14. Kashmir	+6·4	+2·9	+3·1	−0·8	−4·4	−1·7	+1·8	−0·7	−3·5	−1·0	+0·2	−0·8	+0·2
15. North-West Frontier Province	−0·9	+0·2	−1·4	−3·1	−1·9	+2·4	−1·4	−4·0	−7·5	−3·5	−1·5	−3·0	−2·1
16. Baluchistan	+4·0	+3·8	−3·7	−0·9	−3·3	−1·6	+0·5	+1·7	−1·2	−0·1	−0·2	−1·0	−0·2
17. Sind	−0·5	+2·8	−1·6	−0·6	+0·5	+1·0	−2·3	−0·7	−2·0	−0·7	−0·6	−1·0	−0·5
18. Rajputana, West	0	+2·4	−2·7	−0·5	−0·5	+0·2	−4·4	−5·4	−3·9	−2·8	−1·2	−1·9	−1·7
19. Do. East	−0·4	+2·8	−0·8	+0·7	−0·1	+1·3	−4·2	−5·1	−1·7	−1·4	−0·9	−1·0	−0·9
20. Gujarat	+0·2	+0·6	−1·9	−1·0	−1·8	+0·6	−3·1	−3·4	+1·2	−0·2	+0·2	−0·9	−0·8
21. Central India, West	−0·5	+0·6	−3·2	−0·9	−0·9	+1·4	−2·8	−1·9	+1·2	+1·7	+1·2	−0·4	−0·3
22. Do. East	−1·8	+1·7	−1·9	+1·6	+1·7	+6·4	−0·5	−1·8	+0·6	+0·6	+1·0	−0·4	+0·6
23. Berar	+0·1	+1·5	−2·7	+1·2	+0·7	+2·0	−2·0	−3·4	+0·2	+2·3	+0·7	−1·1	0
24. Central Provinces, West	−0·5	+1·0	−2·9	+0·9	+0·4	+4·5	−1·3	−2·1	+0·5	+1·6	+1·2	−1·0	+0·2
25. Do. East	−1·5	−1·4	−2·3	+1·0	+1·0	+2·0	−1·5	−2·9	−0·7	−0·7	−0·5	−2·0	−0·8
26. Konkan	−1·3	0	−1·0	−0·4	−0·6	+1·1	−1·4	−1·0	−0·3	−0·4	−1·6	−1·5	−0·7
27. Bombay Deccan	0	+0·3	−1·3	+1·3	+1·2	+3·1	−1·4	−1·3	+0·4	+2·2	+1·3	−0·5	+0·4
28. Hyderabad, North	...	...	...	...	...	...	...	...	...	+0·7	−0·1	−1·8	...
29. Do. South	−0·5	0	−1·2	+2·1	+1·0	+3·9	−1·3	−0·6	−2·1	+0·2	+0·3	−2·1	0
30. Mysore	+0·9	+0·3	−0·5	+1·5	+0·3	+1·8	−2·4	−1·4	+1·3	+2·2	+2·5	+1·3	+0·7
31. Malabar	−0·1	−0·4	−0·6	−0·5	−1·1	−0·2	−1·6	−0·7	−0·4	+0·4	−0·3	−0·5	−0·5
32. Madras, Southeast	+0·4	−0·4	−1·4	+1·2	+0·4	+1·2	−0·1	+1·1	−0·8	+0·6	+0·3	+0·9	+0·3
33. Do. Deccan	+0·4	+0·2	−1·0	+2·4	+0·3	+2·8	−0·3	+1·5	−1·2	+1·5	+0·6	−1·0	+0·5
34. Do. Coast, North	−2·4	−0·6	−0·3	+0·6	−0·3	+4·2	−0·2	−0·3	−1·4	+0·9	+0·5	−1·0	0

TABLE 22.—*Departure of the mean monthly and annual minimum temperature from the normal in 34 sub-divisions of India in 1908.*

Sub-division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
1. Bay Islands	−1·1	−1·4	−0·8	+0·4	−1·5	−0·4	−1·2	−0·9	−0·7	−1·0	−0·8	−0·2	−0·8
2. Lower Burma	+1·6	+1·0	+1·4	+1·9	+0·1	+0·2	+0·4	+0·1	+1·1	+0·7	+0·3	+0·8	+0·8
3. Upper Burma	+1·9	0	+0·6	+2·8	+0·4	+0·4	+0·6	0	+0·5	+0·2	+0·6	−1·1	+0·6
4. Assam	−0·8	+0·4	−1·5	+2·1	−0·1	+0·1	−0·3	−0·1	−0·1	−0·7	−1·4	−3·4	−0·5
5. Eastern Bengal	−0·5	+0·8	−1·2	+2·2	0	0	−0·2	0	+0·1	−1·2	−1·7	−3·3	−0·4
6. Bengal	−2·3	+0·3	−0·7	+2·4	−0·3	+0·2	−0·2	−0·1	+0·3	−1·1	−2·5	−2·1	−0·5
7. Orissa	−2·8	−0·9	−0·7	+1·6	+0·8	+0·4	−0·5	−0·6	+0·4	−1·3	−4·2	−4·0	−1·0
8. Chota Nagpur	−2·2	+1·0	−0·3	+3·4	−0·3	+1·7	+0·1	+0·1	+0·8	−0·8	−2·5	−2·0	−0·1
9. Bihar	−2·4	−0·2	−1·7	+2·9	+0·9	+1·0	+0·3	+0·1	−0·3	−3·9	−5·1	−5·2	−1·1
10. United Provinces, East	−2·2	−0·1	−1·2	+2·8	+1·1	+1·8	+0·3	0	−0·5	−2·8	−3·0	−3·0	−0·6
11. Do. do. West	−0·4	−0·2	−1·8	+2·5	+0·2	+2·6	−0·9	−0·5	−0·9	−1·2	−0·2	−0·6	−0·1
12. Punjab, East and North	+1·8	+1·3	−1·8	+1·5	+0·6	+2·1	−0·1	−1·1	−1·2	+0·1	+0·3	+0·1	+0·3
13. Punjab, Southwest	+2·6	0	−1·8	+1·1	−1·2	+0·1	−0·5	−1·4	−1·2	+1·2	+1·6	+0·2	+0·1
14. Kashmir	+4·4	+1·9	0	−0·1	−2·1	−3·3	+1·2	+0·8	−0·8	−1·4	−2·4	−0·5	−0·2
15. North-West Frontier Province	+2·8	+0·7	−1·0	+0·9	−1·4	+0·2	+1·4	−0·3	−0·8	+1·2	+2·2	−0·2	+0·5
16. Baluchistan	+3·0	+0·8	−2·4	−0·7	−3·5	−3·1	+3·4	+3·0	−2·0	−1·5	−3·5	−2·8	−0·8
17. Sind	+1·5	−0·8	−2·4	−0·1	−1·5	−0·4	−0·2	+0·9	−0·7	+0·5	+1·2	+1·0	−0·1
18. Rajputana, West	−0·3	−2·6	−3·1	−0·3	−0·7	+0·3	−1·3	−1·0	−4·4	−2·9	−3·6	−4·3	−2·0
19. Do. East	+0·4	−1·3	−2·4	+1·1	−0·4	+2·8	−1·6	−0·7	−2·8	+0·2	−1·4	−2·2	−0·7
20. Gujarat	+0·9	−2·8	−2·8	−0·7	−0·9	+0·6	−1·1	−0·7	−0·4	+0·8	−1·1	−2·8	−0·9
21. Central India, West	−1·3	−2·0	−3·2	+1·8	+0·4	+1·1	0	+0·2	−2·0	−0·9	+0·4	−3·1	−0·7
22. Do. East	−1·3	−0·4	−1·4	+2·6	+1·9	+4·3	+0·3	+1·0	+0·6	−0·9	−0·1	−1·2	+0·5
23. Berar	−1·5	−0·7	−2·5	+0·2	+0·2	+0·6	−0·8	−0·5	+0·9	−0·1	−1·2	−2·5	−0·7
24. Central Provinces, West	−3·0	−1·3	−3·3	+1·2	+1·0	+1·9	−0·5	−0·1	−0·1	−1·1	−1·6	−3·1	−0·8
25. Do do. East	−3·3	−0·4	−3·4	−1·4	+1·3	+2·2	−0·6	−0·5	+0·9	−1·6	−3·7	−3·5	−1·2
26. Konkan	+0·2	−0·3	−2·4	0	−0·2	+1·1	−0·6	−0·3	+0·7	+0·8	−1·4	−1·8	−0·4
27. Bombay Deccan	0	−1·1	−2·6	+0·2	−1·0	+0·3	0	+0·3	+0·7	+1·6	−1·6	−3·1	−0·5
28. Hyderabad, North	...	...	...	...	...	...	...	...	...	−0·4	−1·8	−4·4	...
29. Do. South	+0·7	−1·6	−1·3	+1·4	+0·7	+1·8	−1·0	−0·2	+0·7	−0·3	−3·2	−2·8	−0·4
30. Mysore	+1·9	+0·3	−1·1	+0·7	−0·3	0	−0·3	−0·3	+0·6	+0·3	−2·1	−0·8	−0·1
31. Malabar	+1·3	+0·8	−0·4	+0·9	−0·2	+0·5	−1·2	0	+0·4	+0·8	−0·8	−0·4	+0·1
32. Madras, Southeast	+1·1	−0·5	−0·7	+1·3	+0·1	+0·3	+0·4	+0·8	+0·1	0	−2·0	−0·7	0
33. Do. Deccan	+2·0	−1·2	−2·3	+1·5	−0·4	+0·7	−0·1	+0·5	−0·3	+0·1	−2·9	−2·0	−0·4
34. Do. Coast, North	−0·8	−1·4	−1·9	−0·8	+0·3	+1·4	−0·4	−0·3	−0·2	+0·4	−2·5	−2·9	−0·8

TABLE 23.—*Departure of the mean monthly and annual temperature from the normal in 34 sub-divisions of India in 1908.*

Sub-division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	
1. Bay Islands	−0·9	−2·0	−1·3	+0·3	−1·9	−1·1	−1·3	−1·4	−1·	−1·2	−1·0	−0·4	−1·1
2. Lower Burma	+0·4	+0·3	+0·7	+1·0	−0·2	−0·1	+0·3	−0·4	+0·7	+0·1	−0·8	+0·3	+0·2
3. Upper Burma	+0·4	−0·2	+0·7	+1·9	+0·1	−0·1	+0·6	−0·2	0	0·	−2·4	−1·5	−0·1
4. Assam	−0·8	+0·2	+0·5	+3·0	+0·2	+0·4	−0·6	−0·2	−0·8	−0·6	−1·3	−1·7	−0·1
5. Eastern Bengal	−1·1	+0·5	+0·3	+2·9	+0·3	+0·4	+0·2	+1·0	+0·8	+0·4	−0·4	−1·0	+0·4
6. Bengal	−2·2	+0·6	+0·8	+3·3	+0·1	+0·2	−0·4	+0·1	+0·5	+0·5	−0·5	−0·5	+0·2
7. Orissa	−3·5	−0·7	−0·6	+1·8	+0·5	+0·7	−0·6	−1·1	0	−0·2	−1·8	−2·5	−0·7
8. Chota Nagpur	−2·5	+0·3	−0·1	+3·4	+0·2	+2·1	−0·3	−0·3	+0·5	+0·3	−1·1	−1·3	+0·1
9. Bihar	−3·4	−0·7	−1·2	+3·3	+1·3	+1·5	+1·3	+1·5	+0·9	−0·4	−1·3	−1·9	+0·1
10. United Provinces, East	−2·5	+0·5	−0·9	+3·3	+1·8	+3·2	+2·1	+0·5	+0·8	−0·1	−0·5	−0·9	+0·5
11. Do. do. West	−1·0	+0·8	−0·9	+2·4	+0·6	+4·0	−1·0	−1·8	0	0·	+0·2	−0·8	+0·3
12. Punjab, East and North	+0·6	+2·1	−0·8	+0·2	+0·2	+3·0	−1·1	−2·8	−2·0	−0·7	−0·1	−0·6	−0·2
13. Punjab, Southwest	+1·6	+1·7	−0·8	−0·6	−1·3	+1·1	−1·4	−3·4	−3·5	−0·5	+0·1	−0·8	−0·7
14. Kashmir	+5·4	+2·4	+1·6	−0·5	−3·3	−2·5	+1·5	+0·1	−2·2	−1·2	−1·1	−0·4	0
15. North-West Frontier Province	+1·0	+0·5	−1·2	−1·1	−1·7	+1·3	0	−2·2	−4·2	−1·2	+0·4	−1·6	−0·8
16. Baluchistan	+3·5	+2·3	−3·1	−0·8	−3·4	−2·4	+2·0	+2·4	−1·6	−0·8	−1·9	−1·9	−0·5
17. Sind	+0·5	+1·0	−2·0	−0·3	−0·5	+0·3	−1·3	+0·1	−1·4	−0·1	+0·3	0	−0·3
18. Rajputana, West	−0·2	−0·1	−2·9	−0·4	−0·6	+0·3	−2·9	−3·2	−4·2	−2·9	−2·4	−3·1	−1·9
19. Do. East	0	+0·8	−1·6	+0·9	−0·3	−1·8	−2·9	−2·9	−2·8	−0·6	−1·2	−1·6	−0·8
20. Gujarat	+0·6	−1·1	−2·4	−0·9	−1·4	+0·6	−2·1	−2·1	+0·4	+0·3	−0·5	−1·9	−0·9
21. Central India, West	−0·9	−0·7	−3·2	+0·5	−0·3	+1·3	−1·2	−0·2	−0·4	+0·4	+0·8	−1·6	−0·5
22. Do. East	−1·6	+0·7	−1·7	+2·1	+1·3	+5·4	−0·1	−0·4	+0·6	−0·2	+0·5	−0·8	+0·5
23. Berar	−0·7	+0·4	−2·6	+0·7	+0·5	+1·3	−1·4	−2·0	+0·6	+1·1	−0·3	−1·3	−0·4
24. Central Provinces, West	−1·8	−0·2	−3·1	+1·1	+0·7	+3·2	−0·9	−1·1	+0·2	+0·3	−0·2	−2·1	−0·2
25. Do do. East	−2·4	−0·9	−2·9	−0·2	+1·2	−2·1	−0·1	−1·7	+0·1	−1·2	−2·1	−2·8	−1·0
26. Konkan	−0·6	−0·2	−1·7	−0·2	−0·4	+1·1	−1·0	−0·7	+0·2	+0·2	−1·5	−1·7	−0·5
27. Bombay Deccan	0	−0·4	−2·0	+0·8	+0·1	+1·7	−0·7	−0·5	+0·6	+1·9	−0·2	−1·8	0
28. Hyderabad, North	...	...	...	...	...	...	...	...	...	+0·2	−1·0	−3·1	...
29. Do. South	+0·1	−0·8	−1·3	+1·8	+0·9	+2·9	−1·2	−0·4	−0·7	−0·1	−1·5	−2·5	−0·2
30. Mysore	+1·4	+0·8	−0·8	+2·1	0	+0·2	−1·4	−0·9	+1·0	+1·3	+0·2	+0·2	+0·3
31. Malabar	+0·6	+0·2	−0·5	+0·2	−0·7	+0·2	−1·4	−0·4	0	+0·6	−0·6	−0·5	−0·2
32. Madras, Southeast	+0·8	−0·5	−1·1	+1·3	+0·3	+0·8	+0·2	+1·0	−0·4	+0·8	−0·9	+0·1	+0·2
33. Do. Deccan	+1·2	−0·5	−1·7	+2·0	−0·1	+1·8	−0·2	+1·0	−0·8	+0·8	−1·2	−1·5	+0·1
34. Do. Coast, North	−1·6	−1·0	−1·1	−0·1	0	+2·8	−0·3	−0·3	−0·8	+0·7	−1·0	−2·0	−0·4

In the following discussion the year is divided into four seasons according to the following arrangement :—

1st.—The cold weather period, including the months of January and February.

2nd.—The hot weather period, including the months of March, April and May.

3rd.—The period of the south-west monsoon rains proper, including the months of June, July, August and September.

4th.—The period of the retreating south-west monsoon, including the months of October, November and December.

I.—The cold weather period.—Weather was on the whole more disturbed than usual in the plains of India during January, while it was very generally dry in February. Notwithstanding the dryness of February the aggregate precipitation of the season was however either equal to or above the normal in most divisions. In the mountain region bordering upper India the snowfall was on the whole in defect except locally in the Afghan hills.

The departures from normal of temperature were, as usual, determined by the abnormalities of cloud and rainfall and were accordingly of opposite character in the two months.

(*a*) Over the greater part of the country the daily maximum temperature was, if anything, in defect in January and in excess in February. Accordingly the values for the period corresponded closely with the normal except in the case of Bengal (— 1·7°) and the Punjab (+ 1·5°).

TABLE 24.

Division.	DEPARTURE OF MAXIMUM TEMPERATURE FROM NORMAL.		
	January.	February.	Period January and February.
	°	°	°
Burma	—1·0	—0·2	—0·7
Eastern Bengal and Assam	—1·4	+0·1	—0·7
Bengal	—3·2	—0·2	—1·7
United Provinces	—2·1	+1·4	—0·4
Punjab	0	+3·0	+1·5
North-West Frontier Province	—0·9	+0·2	—0·4
Sind	—0·5	+2·8	+1·2
Rajputana	—0·2	+2·7	+1·2
Bombay	—0·4	+0·3	—0·1
Central India	—1·2	+1·1	—0·1
Central Provinces	—0·5	+0·8	+0·2
Hyderabad	—0·5	0	—0·3
Mysore	+0·9	+0·3	+0·6
Madras	—0·2	—0·4	—0·3

(*b*) The departures from normal of minimum temperature were as small as those of the day temperature. They were however in the majority of cases positive in January and negative in February.

TABLE 25.

Division.	DEPARTURE OF MINIMUM TEMPERATURE FROM NORMAL.		
	January.	February.	Period, January and February.
	°	°	°
Burma	+1·7	+0·6	+1·2
Eastern Bengal and Assam	—0·6	+0·7	+0·1
Bengal	—2·4	0	—1·2
United Provinces	—1·2	—0·1	—0·7
Punjab	+2·1	+0·9	+1·5
North-West Frontier Province	+2·8	+0·7	+1·8
Sind	+1·5	—0·8	+0·4
Rajputana	+0·2	—1·8	—0·8
Bombay	+0·4	—1·5	—0·6
Central India	—1·3	—1·2	—1·3
Central Provinces	—2·7	—1·0	—1·9
Hyderabad	+0·7	—1·8	—0·5
Mysore	+1·9	+0·3	+1·1
Madras	+0·9	—0·5	+0·2

(*c*) Mean daily temperature was approximately normal almost everywhere, the only important exceptions being Bengal (1½° in defect) and the Punjab (1½° in excess).

TABLE 26.

Division.	DEPARTURE OF MEAN TEMPERATURE FROM NORMAL.		
	January.	February.	Period January February.
	°	°	°
Burma	+0·4	+0·1	+0·3
Eastern Bengal and Assam	—1·0	+0·4	—0·3
Bengal	—2·8	—0·1	—1·5
United Provinces	—1·7	+0·6	—0·6
Punjab	+1·1	+2·0	+1·6
North-West Frontier Province	+1·0	+0·5	+0·8
Sind	+0·5	+1·0	+0·8
Rajputana	—0·1	+0·4	+0·2

Division.	Departure of mean temperature from normal.		
	January.	February.	Period, January and February.
	°	°	°
Bombay	0	−0·6	−0·3
Central India	−1·2	0	−0·6
Central Provinces	−1·6	−0·1	−0·9
Hyderabad	+0·1	−0·8	−0·4
Mysore	+1·4	+0·3	+0·9
Madras	+0·3	−0·4	−0·1

(*d*) The excess of temperature was somewhat more marked in *Baluchistan* and *Kashmir* than in the plains of upper India, and was on the whole greater in the day than in the night temperature.

TABLE 27.

Station.	Departure from normal of period, January and February.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Chaman	+4·2	+3·4	+3·8
Quetta	+3·5	+0·3	+1·9
Cherat	+1·4	+2·5	+2·0
Murree	+0·9	+2·3	+1·6
Gilgit	+2·1	+2·6	+2·4
Srinagar	+7·5	+3·2	+5·4
Leh	+4·4	+3·8	+4·1
Kailang	+3·2	+2·8	+3·0
Simla	+4·0	+3·1	+3·6
Chakrata	+5·1	+2·5	+3·8
Darjeeling	+2·4	+1·2	+1·8

(*e*) The high temperature conditions in northwest India extended westwards to Kabul and Ispahan, an indication that they were determined by general and not local actions.

TABLE 28.

Station.	Departure from normal of period, January and February.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Baghdad	−1·7	+0·2	−0·8
Ispahan	+1·2	+2·0	+1·6
Bushire	−0·7	−1·2	−1·0
Jask	+1·2	+2·3	+1·8
Kabul	+3·6	+3·7	+3·7
Kashgar	−0·5	+1·2	+0·4

(*f*) Owing to the absence of heavy snowfalls the warm and cool waves associated with cold weather depressions were with one exception very feeble and left no great impress on the mean temperature conditions of the period.

The lowest temperatures of the period and also of the year in the plains of northwest India were generally recorded in the first week of January during the prevalence of anticyclonic conditions, and in the rest of northern India between January 16th and 20th during the passage of a cold wave. They were however by no means remarkable.

II. The hot weather period.—Weather was generally very quiet in March, particularly in northwest India, which barely received 20 per cent of the normal supply of rainfall. April on the other hand was remarkably wet in the hills and plains of upper India. May was less disturbed than usual over the greater part of the country, but more especially in the coast districts of Malabar and the Konkan where thunderstorms were much less frequent than usual.

The season was thus abnormally dry over a large part of the country, in this respect differing materially from the corresponding periods of 1905 and 1907 both of which were characterized by heavy precipitation.

(*a*) Maximum temperature was on the average of the period 2° in excess of the normal in Eastern Bengal and Assam, and in defect by the same amount in the North-West Frontier Province. Elsewhere in the plains the departures were small.

TABLE 29.

Division.	Departure of maximum temperature from normal.			
	March.	April.	May.	Period March to May.
	°	°	°	°
Burma	+0·2	+0·4	−0·3	+0·1
Eastern Bengal and Assam.	+2·0	+3·7	+0·6	+2·1
Bengal	+0·4	+3·4	+0·8	+1·5
United Provinces	−0·2	+2·9	+1·7	+1·5
Punjab	+0·3	−1·5	−0·6	−0·6
North-West Frontier Province.	−1·4	−3·1	−1·9	−2·1
Sind	−1·6	−0·6	+0·5	−0·6
Rajputana	−1·5	+0·4	−0·3	−0·5
Bombay	−1·5	−0·1	−0·4	−0·7
Central India	−2·5	+0·4	+0·4	−0·6
Central Provinces	−2·8	+1·0	+0·6	−0·4
Hyderabad	−1·2	+2·1	+1·0	+0·6
Mysore	−0·5	+1·5	+0·3	+0·4
Madras	−1·0	+1·0	−0·1	0

(*b*) The departures of minimum temperature were roughly similar in their general character to those of the maximum, but were smaller in amount.

TABLE 30.

Division.	Departure of minimum temperature from normal.			
	March.	April.	May.	Period, March to May.
	°	°	°	°
Burma	+1·0	+2·3	+0·2	+1·2
Eastern Bengal and Assam.	−1·3	+2·2	0	+0·3
Bengal	−0·9	+2·5	+0·3	+0·6
United Provinces	−1·5	+2·6	+0·7	+0·6
Punjab	−1·8	+1·4	0	−0·1
North-West Frontier Province.	−1·0	+0·9	−1·4	−0·5
Sind	−2·4	−0·1	−1·5	−1·3
Rajputana	−2·7	+0·7	−0·5	−0·8
Bombay	−2·6	−0·2	−0·8	−1·2
Central India	−2·3	+2·2	+1·1	+0·3
Central Provinces	−3·1	+0·4	+0·8	−0·6
Hyderabad	−1·8	+1·4	+0·7	+0·3
Mysore	−1·1	+0·7	−0·3	−0·2
Madras	−1·1	+1·1	0	0

(*c*) Mean temperature of the period as a whole was nearly normal.

TABLE 31.

Division.	Departure of mean temperature from normal.			
	March.	April.	May.	Period, March to May.
	°	°	°	°
Burma	+0·6	+1·4	0	+0·7
Eastern Bengal and Assam.	+0·4	+2·9	+0·3	+1·2
Bengal	−0·3	+3·0	+0·5	+1·1
United Provinces	−0·9	+2·8	+1·2	+1·0
Punjab	−0·8	−0·1	−0·3	−0·4
North-West Frontier Province.	−1·2	−1·1	−1·6	−1·3
Sind	−2·0	−0·3	−0·5	−0·9
Rajputana	−2·1	+0·6	−0·4	−0·6
Bombay	−2·1	−0·2	−0·6	−1·0
Central India	−2·5	+1·3	+0·3	−0·1
Central Provinces	−3·0	+0·7	+0·7	−0·5
Hyderabad	−1·3	+1·3	+0·9	+0·5
Mysore	−0·3	+1·1	−0·1	+0·1
Madras	−1·1	+1·0	0	0

(*d*) Weather was somewhat cooler than usual, both by day and night, over the highlands of Persia, Baluchistan and Afghanistan, and also in the western portions of Kashmir and the Punjab Himalayas. The lowness was in part at least due to the occurrence of late snowfalls in May Leh, Chakrata, Darjeeling, Baghdad and Kashgar were apparently beyond the region of low temperature.

TABLE 32.

Station.	Departure from normal of period, March to May.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Baghdad	+1·4	+2·6	+2·0
Bushire	−0·4	+0·9	+0·3
Ispahan	−3·3	−0·1	−1·7
Jask	−0·7	−0·7	−0·7
Chaman	−4·0	−2·6	−3·3
Quetta	−1·2	−1·8	−1·5
Kabul	−1·2	−1·6	−1·4
Cherat	−4·1	−2·3	−3·2
Murree	−2·5	−0·5	−1·5
Gilgit	−3·1	−2·2	−2·7
Kashgar	+0·7	−0·6	+0·1
Srinagar	+0·1	−0·2	−0·1
Kailang	−1·2	+0·3	−0·5
Simla	+0·5	−0·6	−0·1
Leh	+0·7	+0·2	+0·5
Chakrata	+2·0	+0·7	+1·4
Darjeeling	+2·3	+1·1	+1·7

The greatest heat of the year in the plains of northwest India was recorded in the first week of June, which is about the normal time. The absolute maximum of the year was as usual registered at Jacobabad and was from 1° to 4° lower than the annual maximum readings recorded during the period 1895 to 1906.

III. The south-west monsoon period.—The advance of the monsoon currents into India occurred after the normal date and although some rain fell in June over central and northwest India the monsoon conditions were not fully established there until about the end of the first week in July.

The Arabian Sea current was remarkably vigorous during the greater part of the period and gave abundant rain, in its usual field, but particularly in northwest India where the total fall of the season surpassed all previous measurements. It withdrew from upper India on the 10th of September, and during the rest of that month its activity was displayed chiefly in the peninsula. The Bay current on the other hand was abnormally weak and the rainfall over the area usually dependent upon it was scanty and very unfavourably distributed. The drought was severe and almost uninterrupted in Bihar and the east of the United Provinces.

(*a*) On the average of the whole period June to September temperature was very nearly normal in all the plains divisions excepting the Punjab, the North West Frontier Province and Rajputana where it was slightly below the average. The defect accompanied more cloud and rainfall than the normal, and as usual under these conditions was exhibited chiefly in the day temperature.

TABLE 33.

Division.	Departure from normal of period, June to September.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Burma	−0·2	+0·4	+0·1
Eastern Bengal and Assam	+0·7	−0·1	+0·3
Bengal	+0·5	+0·2	+0·4
United Provinces	+1·6	+0·2	+0·9
Punjab	−2·0	−0·3	−1·2
North-West Frontier Province	−2·6	+0·1	−1·3
Sind	−1·0	−0·1	−0·6
Rajputana	−2·7	−1·0	−1·9
Bombay	−0·5	0	−0·3
Central India	+0·4	+0·7	+0·6
Central Provinces	−0·1	+0·3	+0·1
Hyderabad	0	+0·3	+0·2
Mysore	−0·2	0	−0·1
Madras	+0·3	+0·2	+0·3

(*b*) Except at a few stations in the western Himalayas temperature was on the mean of the period normal or in excess all over the mountain zone bordering upper India as well as in Persia: this is an indication that the cooling effect of snowfall which was distinctly traceable in the temperature records of upper India in May, ceased to be operative during the monsoon period :—

TABLE 34.

Station.	Departure from normal of period, June to September.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Baghdad	+2·3	+1·9	+2·1
Bushire	+0·6	+1·3	+1·0
Ispahan	−1·4	+1·9	+0·3
Jask	−0·4	+0·7	+0·2
Chaman	−1·3	−0·5	−0·9
Quetta	+1·0	+1·1	+1·1

Station.	Departure from normal of period, June to September. Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	
Kabul	+1·6	—0·1	+0·8
Cherat	—4·3	—1·7	—3·0
Murree	—2·3	—0·5	—1·4
Gilgit	—0·1	—2·7	—1·4
Kashgar	+3·1	+0·1	+1·6
Srinagar	+0·8	+1·0	+0·9
Kailang	—0·7	0	—0·4
Simla	+0·4	+0·4	+0·4
Leh	—3·8	+0·2	—1·8
Chakrata	+1·8	+0·4	+1·1
Darjeeling	+2·2	+0·2	+1·2

IV. The retreating south-west monsoon period.—The retreating current in the Bay was very feeble and was directed in October and November chiefly to Burma. Over the peninsula there was a failure of the rains almost as complete as in the corresponding months of 1899.

Several depressions entered northwest India from the west but exercised no great influence on the weather.

(*a*) On the mean of the period temperature differed by less than 1° from the normal in the case of twelve of the fourteen divisions.

Table 35.

Division.	Departure from normal of period, October to December. Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Burma	—1·6	+0·3	—0·7
Eastern Bengal and Assam	+0·9	—2·0	—0·6
Bengal	+1·2	—2·9	—0·9
United Provinces	+1·3	—1·7	—0·2
Punjab	—1·2	+0·4	—0·4
North-West Frontier Province	—2·7	+1·1	—0·8
Sind	—0·8	+0·9	+0·1
Rajputana	—1·4	—2·0	—1·7
Bombay	—0·1	—1·0	—0·6
Central India	+0·6	—1·0	—0·2
Central Provinces	+0·3	—2·0	—0·9
Hyderabad	—0·5	—2·1	—1·3
Mysore	+2·0	—0·9	+0·6
Madras	+0·3	—1·0	—0·4

(*b*) In the Himalayan region as well as in Baluchistan, Afghanistan and Persia the only striking abnormal feature was the lowness of night temperature in Baluchistan and the Afghan hills—areas of defective cloud.

Table 36.

Station.	Departure from normal of period, October to December. Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Baghdad	—0·3	+0·1	—0·1
Bushire	+0·8	+0·2	+0·5
Ispahan	+1·3	+1·3	+1·3
Jask	—0·3	+0·6	+0·2
Chaman	—0·7	—2·5	—1·6
Quetta	+1·0	?	?
Kabul	?	—3·4	?
Cherat	—3·5	—2·2	—2·9
Murree	—2·6	—1·9	—2·3
Gilgit	+0·6	—2·6	—1·0
Srinagar	+0·2	—0·3	—0·1
Kailang	+1·1	—1·0	+0·1
Simla	+0·3	—0·9	—0·3
Leh	—1·3	—0·2	—0·8
Chakrata	+3·4	—1·0	+1·2
Darjeeling	+2·9	—0·4	+1·3

The year.—On the whole 1908 was cooler than usual. In April and June both of which were dry months the temperature was in decided excess of the normal, while in March, July, August, November and December it was more than half a degree in defect. The coolness of July and August was attributable to an excess of rain but the defect of temperature in March and the last two months of the year was associated with a marked dryness of the air and low cloud amount.

The mean departure of the twelve months was—0·2 which is comparable with that of the previous year, as will be seen from the table below which gives the mean departure and progressive change of the mean actual temperature for the past 19 years :—

TABLE 37.

Year.	Number of stations.	Mean departure.	Progressive change.
		°	°
1890	85	+0·12	+0·78
1891	72	—0·03	—0·16
1892	74	+0·66	+0·69
1893	68	—1·33	—1·99
1894	66	+0·11	+1·44
1895	69	+0·35	+0·24
1896	67	+1·30	+0·95
1897	75	+0·90	—0·40
1898	75	+0·65	—0·25
1899	52	+0·78	+0·13
1900	50	+1·17	+0·39
1901	50	+0·63	—0·54
1902	49	+1·06	+0·43
1903	46	+0·18	—0·88
1904	46	—0·03	—0·21
1905	46	—0·43	—0·69
1906	45	+0·33	+0·75
1907	23	—0·08	—0·41
1908	157	—0·19	—0·11

The temperature departure for 1908 has been derived from the data of first, second and third class stations in Table B, while in previous years it has been derived only from first and second class stations.

The departures of temperature from the normal were of the same sign in tropical as in extra-tropical India during eight of the twelve months. Since in ordinary years the temperature conditions in those two regions tend to vary in opposite directions, the similarity of the departures in 1908 would appear to indicate that more general actions were in operation than usual.

Atmospheric pressure.

Full information regarding the types of barometers in use at Indian observatories and of the methods of reducing the observations and obtaining the mean daily and monthly pressures will be found in pages 4 and 5 of the Monthly Review for January 1908.

In Table A, called Table II prior to 1907, of each Monthly Review the monthly mean daily pressure (corrected for temperature) is given in the seventh column, and the departure from the normal in the eighth column. The normal monthly mean pressure values were recalculated in 1904 for all first and second class stations, and will be found in pages 66-69 of the "Indian Meteorological Memoirs," Vol. XVII. The departure data in the Monthly Reviews for the year 1908 were obtained by a comparison of the actual monthly means with these normals; the departures of the monthly pressure of all first and second class stations in 1908 are given in Table 38. The figures in the seventh and eighth columns of Table A appended to the present Annual Summary, giving data of the mean pressure of the air and its departure from the normal for all first and second class stations, are comparable with the corresponding data of previous years published in the Annual Reports and Summaries.

In the ninth column of Table A in each Monthly Review the mean pressures reduced to sea level and corrected to constant gravity (Lat. 45) are given. These are not directly comparable with the sea-level pressure values of the years 1875-90 as given in the Annual Reports for those years, for previous to 1891 no correction was made to reduce the monthly pressure means to standard gravity.

In Table B of each Monthly Review and also in that appended to the Annual Summary are given the pressure data for 8 hrs. local time. The fourth column in that table gives the mean 8 hrs. pressures for the month corrected for temperature. In the fifth column are given the departures of these mean 8 hrs. pressures from the normal pressures.

TABLE 38.—*Departures from normal of monthly and annual mean pressure of first and second class stations in 1908.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		"	"	"	"	"	"	"	"	"	"	"	"	"
Burma	Rangoon	+·031	−·044	+·005	−·031	−·002	−·009	+·019	−·009	−·016	−·025	−·007	−·018	−·008
Bengal	Calcutta	+·030	−·039	+·019	−·054	+·009	−·018	+·009	−·022	−·028	−·024	−·029	+·001	−·008
United Provinces of Agra and Oudh.	Allahabad	+·024	−·059	+·036	−·051	−·027	−·033	−·011	−·037	+·021	−·029	−·010	+·013	−·014
	Dehra Dun	+·017	−·053	+·029	−·037	−·015	−·031	−·004	+·009	−·001	−·047	−·018	−·001	−·013
Punjab	Lahore	−·001	−·076	+·036	−·030	−·002	−·022	+·019	+·026	+·011	−·034	−·022	−·009	−·009
Rajputana	Jaipur	+·016	−·036	+·040	−·014	+·005	+·009	+·005	−·029	+·012	−·016	−·016	0	−·002
Bombay	Bombay	+·018	−02 9	+·014	−·008	+·037	+·026	+·001	−·019	−·009	−·005	+·001	+·008	+·003
Central Provinces	Nagpur	+·033	−·027	+·044	−·017	+·010	−·007	+·018	−·019	+·015	+·004	+·001	+·017	+·006
Hyderabad	Hyderabad	+·018	−·029	+·019	−·030	+·007	0	+·018	−·005	−·005	+·006	+·008	+·007	+·001
Mysore	Bangalore	+·018	−·036	+·011	−·014	+·018	−·002	+·009	−·012	−·034	−·019	−·008	−·012	−·007
	Mysore	+·009	−·031	+·012	−·013	+·017	+·025	+·025	+·003	−·030	−·023	−·017	−·023	−·004
Madras	Madras	+·031	−·033	+·022	−·040	0	−·007	+·020	−·020	−·024	−·008	−·004	0	−·006
Bay Islands	Port Blair	+·045	−·039	+·002	−·030	0	+·008	+·024	−·002	−·012	−·010	−·003	−·018	−·008
Kashmir	Srinagar	−·014	−·044	+·015	−·019	+·014	+·008	−·015	+·009	+·012	−·019	−·040	−·032	−·010
	Leh	+·033	−·016	−·021	−·091	−·007	+·012	+·010	+·010	+·014	−·025	−·020	−·055	−·006
Baluchistan	Quetta	+·022	−·019	+·039	−·025	+·015	+·026	−·003	−·009	+·024	−·006	−·004	+·001	+·005
Hill stations excluding Kashmir and Baluchistan.	Simla	+·028	−·010	+·023	0	+·012	+·005	+·016	+·006	+·006	−·032	−·024	−·024	+·001
	Chakrata	+·027	−·021	+·019	−·001	+·012	+·005	+·036	+·040	+·037	−·023	−·001	−·009	+·010
	Katmandu	+·050	−·013	+·040	−·016	+·022	+·018	+·028	+·033	+·024	−·014	+·002	+·030	+·017
	Darjeeling	+·029	0	+·017	−·013	−·003	−·001	+·009	+·010	−·011	−·045	−·040	−·002	−·004
	Pachmarhi	+·008	−·032	+·018	−·008	+·008	+·004	−·012	−·049	−·009	−·007	−·016	−·004	−·006
	Mount Abu	+·008	−·023	+·020	−·005	+·009	+·019	−·021	−·039	+·017	−·029	−·010	+·002	−·004
	Chikalda	−·019	−·052	+·006	−·019	+·007	+·011	−·013	−·040	+·002	−·010	−·029	−·036	−·016
Extra India	Zanzibar	+·019	−·007	−·007	−·025	+·039	+·011	+·013	−·009	+·013	−·025	−·013	−·025	−·001
	Seychelles	+·025	−·022	+·006	−·013	+·013	+·018	−·004	−·010	−·002	−·002	+·002	−·009	0
	Mauritius	−·042	−·073	−·088	−·021	+·018	+·023	+·018	−·035	+·013	−·044	−·027	−·034	−·024

TABLE 39.—*Departure of the mean monthly pressure from the normal in the fourteen chief political divisions of India in 1908.*

Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	"	"	"	"	"	"	"	"	"	"	"	"	"
Burma	+·037	—·032	+·012	—·030	+·001	—·007	+·020	—·004	+·001	—·026	—·008	—·008	—·004
Eastern Bengal and Assam	+·036	—·023	+·026	—·045	+·016	—·016	+·021	+·010	+·015	—·033	—·015	+·008	0
Bengal	+·037	—·035	+·032	—·043	+·009	—·021	+ 012	—·019	+·024	—·025	—·013	+·014	—·002
United Provinces	+·028	—·049	+·039	—·033	+·003	—·023	+·010	0	+·018	27	—·010	+·013	—·003
Punjab	+·012	—·048	+·044	—·023	+·009	—·016	+·030	+·025	+·021	—·021	—·014	+·013	+·003
North-West Frontier Province	—·009	—·063	+·045	—·028	+·013	—·016	+·021	+·029	+·025	—·031	—·037	+·002	—·004
Sind	+·004	—·042	+·055	—·016	+·018	+·018	+·007	—·014	+·022	—·008	—·006	+·014	+·004
Rajputana	+·007	—·034	+·036	—·013	+·017	+·010	+·008	—·028	+·032	—·006	—·013	+·008	+·002
Bombay	+·016	—·024	+·027	—·005	+·028	+·027	—·003	—·024	—·005	—·001	+·001	+·006	+·004
Central India	+·024	—·037	+·036	—·008	+·005	+·004	+·003	—·034	+·023	—·007	—·011	—·003	0
Central Provinces	+·024	—·028	+·033	—·013	+·013	+·005	+·006	—·026	+·017	—·002	—·003	+·012	+·003
Hyderabad	+·023	—·012	+·034	—·014	+·016	+·018	+·010	—·017	—·024	—·004	—·011	0	+·002
Mysore	+·015	—·032	+·016	—·019	+·018	+·004	+·011	—·008	—·019	—·008	+·001	—·005	—·002
Mad	+·028	—·027	+·023	—·027	+·015	+·008	+·020	—·009	—·018	—·011	+·007	+·003	+·001
Mean of India when the size of the above areas is taken into account.	+·024	—·033	+·031	—·023	+·012	—·001	+·013	—·011	+·009	—·015	—·008	+·006	0

I.—The cold weather period.

(*a*) The mean 8 hrs. pressure of the Indian land area was in considerable excess of the normal in January and markedly in defect in February. As temperature was practically normal during the period it is evident that these large pressure departures were not the effects of temperature as measured in the lowest stratum of the atmosphere.

The statement below illustrates these remarks :—

TABLE 40.

Month.	Departure from normal.	
	8 hrs. pressure.	Temperature.
	"	°
January	+·025	—0·4
February	—·034	+0·2

A comparison of the past records of pressure at the earth's surface with those of rainfall during the cold weather months does not disclose any marked relationship between the two elements, though it shows that there is a slight tendency to more disturbed weather than usual during periods of excess of pressure and *vice versâ*, and a further confirmation of this is furnished by the results of the cold weather season of 1908.

(*b*) The excess in January and the defect in February extended as far as the equator but not over Persia.

TABLE 41.

Station.	Departure of pressure from normal.		
	January.	February.	Period, January and February.
	"	"	"
Mauritius	—·042	—·073	—·058
Seychelles	+·025	—·022	+·002
Zanzibar	+·029	0	+·015
Aden	+·042	+·047	+·045
Baghdad	+·003	0	+·002
Bushire	—·022	—·004	—·013
Jask	—·010	0	—·005
Muscat	+·006	+·006	+·006

(*c*) The local features of the pressure distribution in India were of no significance.

TABLE 42.

Division.	Excess of pressure departure over geographical mean for India.		
	January.	February.	Period, January and February.
	"	"	"
Burma	+·012	+·002	+·007
Eastern Bengal and Assam	+·011	+·006	+·009
Bengal	+·012	—·001	+·006
United Provinces	+·003	—·015	—·006
Punjab	—·013	—·014	—·014
North-West Frontier Province	—·034	—·029	—·032
Sind	—·021	—·008	—·015
Rajputana	—·018	0	—·009
Bombay	—·009	+·010	+·001
Central India	—·001	—·003	—·002
Central Provinces	—·001	+·006	+·003
Hyderabad	—·002	+·022	+·010
Mysore	—·010	+·002	—·004
Madras	+·003	+·007	+·005

(*d*) The vertical pressure gradient over northern India was weaker than usual, particularly in February. Notwithstanding the unfavourable character of this pressure factor the weather during January was more unsettled than usual.

TABLE 43.

Pair of Stations.	Departure from normal of vertical pressure differences.		
	January.	February.	Period, January and February.
	"	"	"
Lahore and Leh	—·022	—·056	—·039
Jacobabad and Quetta	—·032	—·053	—·043
Peshawar and Murree	—·046	—·051	—·049
Ludhiana and Simla	—·007	—·016	—·012
Roorkee and Chakrata	+·005	—·033	—·014
Dhubri and Darjeeling	—·024	—·045	—·035
Deesa and Mount Abu	+·003	—·007	—·002
Khandwa and Pachmarhi	+·003	+·006	+·005

II. The hot weather period.—Pressure was very unsteady during this period, being in excess in March and May and below the normal in April.

TABLE 44.

MONTH.	Departure from normal of mean 8 hrs. pressure.
	"
March	+·029
April	—·025
May	+·013

(*a*) The general variations of pressure were common to practically the whole of the Indian monsoon region, as is shown below:—

TABLE 45.

STATION.	DEPARTURE OF PRESSURE FROM NORMAL.			
	March.	April.	May.	Period, March to May.
	"	"	"	"
Mauritius	—·088	—·021	+·018	—·030
Seychelles	+·006	—·013	+·013	+·002
Zanzibar	+·004	—·024	+·033	+·004
Aden	+·029	+·017	+·053	+·033
Perim	...	...	+·019	...
Bushire	+·017	—·028	+·065	+·018
Jask	+·038	—·032	+·015	+·007
Muscat	+·065	—·017	+·051	+·033

(*b*) There was nothing decidedly abnormal in the local distribution of pressure:—

TABLE 46.

DIVISION.	EXCESS OF PRESSURE DEPARTURE OVER GEOGRAPHICAL MEAN FOR INDIA.			
	March.	April.	May.	Period, March to May.
	"	"	"	"
Burma	—·017	—·005	—·012	—·011
Eastern Bengal and Assam	—·003	—·020	+·003	—·007
Bengal	+·003	—·018	—·004	—·006
United Provinces	+·010	—·008	—·010	—·003
Punjab	+·015	+·002	—·004	+·004
North-West Frontier Province	+·016	—·003	0	+·004
Sind	+·026	+·009	+·005	+·013
Rajputana	+·007	+·012	+·004	+·008
Bombay	—·002	+·020	+·015	+·011
Central India	+·007	+·017	—·008	+·005
Central Provinces	+·004	+·012	0	+·005
Hyderabad	+·005	+·011	+·003	+·006
Mysore	—·018	+·006	+·005	—·001
Madras	—·006	—·002	+·002	—·002

(*c*) The vertical gradient was steeper than usual in March but was normal or below it in the two succeeding months. It had however little to do with the weather which in northwest India was unusually disturbed in April and very dry in the terminal months of the period.

TABLE 47.

PAIR OF STATIONS.	DEPARTURE FROM NORMAL OF VERTICAL PRESSURE-DIFFERENCES.			
	March.	April.	May.	Period, March to May.
	"	"	"	"
Lahore and Leh	+·048	—·018	—·001	+·010
Jacobabad and Quetta	+·015	—·009	0	+·002
Peshawar and Murree	+·006	—·012	+·010	+·001
Ludhiana and Simla	+·014	—·019	—·008	—·004
Roorkee and Chakrata	+·024	—·026	—·005	—·002
Dhubri and Darjeeling	—·015	—·065	—·011	—·030
Deesa and Mount Abu	+·011	+·010	+·017	+·013
Khandwa and Pachmarhi	+·006	+·003	—·002	+·002

III.—The southwest monsoon period.—Pressure varied somewhat irregularly from month to month: thus it was normal in June, in defect in August and above the normal in July and September.

TABLE 48.

MONTH.	Departure from normal of mean 8 hrs. pressure.
June	—·001
July	+·013
August	—·009
September	+·006

(*a*) The only striking peculiarity in the local distribution of pressure was a slight to moderate excess of pressure in upper India in July and August; this extended to the whole of northern and central India in September in which month it was presumably associated with the early cessation of the monsoon rains over the greater part of the area.

TABLE 49.

DIVISION.	EXCESS OF PRESSURE DEPARTURE OVER GEOGRAPHICAL MEAN FOR INDIA.				
	June.	July.	August.	September	Period, June to September
	"	"	"	"	"
Burma	—·006	+·007	+·005	—·005	0
Eastern Bengal and Assam	—·015	+·008	+·019	+·009	+·005
Bengal	—·020	—·001	—·010	+·018	—·003
United Provinces	—·022	—·003	+·009	+·012	—·001
Punjab	—·015	+·017	+·034	+·015	+·013
North-West Frontier Province.	—·015	+·008	+·033	+·019	+·013
Sind	+·019	—·006	—·005	+·016	+·006
Rajputana	+·011	—·005	—·019	+·026	+·003
Bombay	+·028	—·016	—·015	—·011	—·004
Central India	+·005	—·010	—·025	+·017	—·003
Central Provinces	+·006	—·007	—·017	+·011	—·002
Hyderabad	+·019	—·003	—·008	—·030	—·006
Mysore	+·005	—·002	+·001	—·025	—·005
Madras	+·009	+·007	0	—·024	—·002

(*b*) The vertical *gradient* was on the mean of the whole period almost normal in amount.

TABLE 50.

PAIR OF STATIONS.	DEPARTURE FROM NORMAL OF VERTICAL PRESSURE DIFFERENCES.				
	June.	July.	August.	September	Period, June to September
	"	"	"	"	"
Lahore and Leh	—·044	+·008	+·011	—·003	—·007
Jacobabad and Quetta	—·011	+·012	—·001	+·006	+·002
Peshawar and Murree	—·012	—·005	+·013	+·009	+·001
Ludhiana and Simla	—·025	+·002	+·003	+·008	—·003
Roorkee and Chakrata	—·020	—·012	—·021	—·019	—·018
Dhubri and Darjeeling	—·020	0	—·010	+·009	—·005
Deesa and Mount Abu	+·004	+·007	—·013	—·008	—·003
Khandwa and Pachmarhi.	+·005	+·011	+·030	—·001	+·011

(*c*) For the whole period the pressure over the Indian Ocean, Arabia and Persia did not differ appreciably from the average value. It was however almost as unsteady there as in India and at Mauritius its variations were in three out of four months such as are unfavourable to abundant rainfall in India.

TABLE 51.

STATION.	DEPARTURE OF PRESSURE FROM NORMAL.				
	June.	July.	August.	September	Period, June to September
	"	"	"	"	"
Mauritius	+·023	+·018	—·035	+·013	+·005
Seychelles	+·018	—·004	—·010	—·002	+·001
Zanzibar	+·005	+·007	—·012	+·011	+·003
Aden	+·049	+·006	—·009	+·015	+·015
Perim	+·022	—·012	—·043	—·021	—·014
Baghdad	...	—·030*	—·069	—·030	...
Bushire	+·029	—·029	—·036	+·014	—·006
Jask	+·037	—·022	—·028	+·020	—·003
Muscat	+·041	—·031	—·023	+·012	0

* Mean of 22 days.

IV.—The retreating south-west monsoon period.—

(*a*) There was a slight deficiency of pressure on the mean of October and November and a very slight excess in December.

TABLE 52.

MONTH.	Departure from normal of mean 8 hrs. pressure.
	"
October	—·016
November	—·006
December	+·006

(*b*) The defect was common to practically the whole of the monsoon region, while the excess was restricted to the land area.

TABLE 53.

STATION.	DEPARTURE OF PRESSURE FROM NORMAL.			
	October.	November.	December.	Period, October to December.
	"	"	"	"
Mauritius	—·044	—·027	—·034	—·035
Seychelles	—·002	+·002	—·009	—·003
Zanzibar	—·015	—·003	—·012	—·010
Aden	—·006	+·005	+·018	+·006
Perim	—·041	—·031	—·013	—·028
Baghdad	+·037	—·010	+·067	+·031
Bushire	—·026	—·039	—·024	—·030
Jask	+·001	—·019	0	—·006
Muscat	—·018	—·018	+·016	—·007

(*c*) The local modifications of the pressure distribution in India were feebly marked: they tended however to divert the monsoon current in the Bay from the peninsula to Burma and north-east India during October and November.

TABLE 54.

DIVISION.	EXCESS OF PRESSURE DEPARTURE OVER GEOGRAPHICAL MEAN FOR INDIA.			
	October.	November.	December.	Period, October to December.
	"	"	"	"
Burma	—·010	—·002	—·014	—·009
Eastern Bengal and Assam	—·017	—·009	+·002	—·008
Bengal	—·009	—·007	+·008	—·003
United Provinces	—·011	—·004	+·007	—·003
Punjab	—·005	—·008	+·007	—·002
North-West Frontier Province	—·015	—·031	—·004	—·017
Sind	+·008	0	+·008	+·005
Rajputana	+·010	—·007	+·002	+·002
Bombay	+·015	+·007	0	+·007
Central India	+·009	—·005	—·009	—·002
Central Provinces	+·014	+·003	+·006	+·008
Hyderabad	+·013	—·005	—·006	0
Mysore	+·008	+·007	—·011	+·001
Madras	+·005	+·013	—·003	+·005

(*d*) The vertical distribution of the pressure was in November unfavourable and in December favourable for an early winter.

TABLE 55.

PAIR OF STATIONS.	DEPARTURE FROM NORMAL OF VERTICAL PRESSURE DIFFERENCES.			
	October.	November.	December.	Period, October to December.
	"	"	"	"
Lahore and Leh	—·016	0	+·058	+·014
Jacobabad and Quetta	—·010	—·005	+·015	0
Peshawar and Murree	—·013	—·035	+·011	—·012
Roofkee and Chakrata	—·020	—·005	+·010	—·005
Dhubri and Darjeeling	—·005	+·012	—·008	+·001
Deesa and Mount Abu	+·029	+·001	+·009	+·013
Khandwa and Pachmarhi	+·008	—·014	+·003	—·001

The Year :—

(*a*) The general abnormalities of pressure were not so persistent as is frequently the case, the mean monthly values of pressure over India being alternately in excess and defect during the first ten months of the year. As a net result the pressure of the whole year was identical with the normal average of the country.

TABLE 56.

MONTH.	DEPARTURE FROM NORMAL OF	
	Pressure.	Temperature.
	"	°
January	+·024	−0·4
February	−·033	+0·2
March	+·031	−1·2
April	−·023	+1·2
May	+·012	+0·2
June	−·001	+1·6
July	+·013	−0·7
August	−·011	−0·9
September	+·009	−0·4
October	−·015	0
November	−·008	−0·7
December	+·006	−1·2
Year	0	−0·2

A reference to the corresponding departures of temperature given in the second figure column of the above statement shows that in eight out of the twelve months the abnormalities of pressure were partially at least determined by those of temperature.

(*b*) Relatively to the plains, pressure was somewhat in excess at the level of the observing stations in the Himalayas and Baluchistan; in other words the vertical gradient was slighter than usual.

TABLE 57.

PAIR OF STATIONS.	Departure from normal of vertical pressure differences.
	"
Lahore and Leh	−·003
Jacobabad and Quetta	−·006
Peshawar and Murree	−·011
Roorkee and Chakrata	−·010
Dhubri and Darjeeling	−·014
Deesa and Mount Abu	+·005
Khandwa and Pachmarhi	+·005

(*c*) In regions outside of India, pressure was on the mean of the year in moderate defect at Mauritius, and very nearly normal in the sub-equatorial belt, Persia and the Bay as represented by Port Blair.

Below are given the departures and progressive changes of pressure in the Indian land area during the past 34 years.

TABLE 58.

YEAR.	Number of stations	Mean pressure.	Progressive variation.
		"	"
1875	33	−·007	...
1876	35	−·007	0
1877	59	+·032	+·039
1878	65	+·002	−·030
1879	81	−·014	−·016
1880	93	−·003	+·011
1881	93	+·002	+·005
1882	93	−·010	−·012
1883	105	−·005	+·005
1884	107	+·010	+·015
1885	113	+·014	+·004
1886	118	−·003	−·017
1887	117	−·006	−·003
1888	109	+·011	+·017
1889	76	+·004	−·007
1890	77	−·009	−·013

Year.	Number of stations.	Mean pressure.	Progressive variation.
		"	"
1891	72	+·010	+·019
1892	72	—·022	—·032
1893	66	—·001	+·021
1894	66	—·012	—·011
1895	66	+·003	+·015
1896	68	—·001	—·004
1897	74	—·005	—·004
1898	74	—·018	—·013
1899	51	+·004	+·022
1900	49	+·010	+·006
1901	47	+·005	—·005
1902	46	+·011	+·006
1903	46	+·001	—·010
1904	45	—·003	—·004
1905	46	+·009	+·012
1906	45	—·002	—·011
1907	23	—·003	—·001
1908	152	·0	+·003

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STORMS.

Below is given a statement, drawn up in the same form as in previous years, of the cyclonic storms formed in the Indian Seas during 1908. The tracks of the storms are given in Plate VI at the end of the Summary.

BAY OF BENGAL.

No.	Month.	Date.	Greatest observed barometric depression.	Character of storm.	Details of storm.
1	June...	16th to 22nd.	·27″	Cyclonic storm of moderate intensity.	This storm formed over the head of the Bay during the 15th in front of the first advance of monsoon winds and travelling slowly in a northeasterly direction crossed the coast on the 17th. The centre was to the south of Jessore on the morning of the 18th and about 60 miles to the east of Berhampore on the 19th. Its movement was very small indeed during the next 48 hours while it was turning to west. The rate of advance increased slightly on the 21st and by the morning of the 22nd the centre had reached a position about 30 miles west by north of Berhampore. It is not possible to trace the disturbance any farther but presumably it was merged during the day in another depression appearing over Bengal at the time. The strongest winds induced by the storm were of force 10.
2	August	7th and 8th.	·12″	Feeble...	This originated over the extreme north of the Bay during the 6th; from there it advanced in a north westerly direction and on the 8th and 9th was shown as a large shallow low pressure area over Orissa and Chota Nagpur. The strongest winds caused by it were of force 6.
3	August and September.	28th August to 5th September.	·22″	Cyclonic storm of moderate intensity.	This storm formed over the Bay in the neighbourhood of the Orissa coast during the 27th and thence advanced along a northwesterly tract to the vicinity of Multan on the 3rd of September. It then changed its course through north to northeast and disappeared in the east Punjab on the 5th. Winds of force 8 were experienced over the Bay during the early stages of the storm.
4	September.	24th to 27th.	·21″	Cyclonic storm of moderate or considerable intensity.	This storm formed over the west of the Bay on the 23rd: it advanced westwards towards the Circars coast which it crossed between Cocanada and Masulipatam on the morning of the 26th. It continued to move slowly in the same direction and by the morning of the 28th had become very diffused. Although not very deep it was the cause of cyclonic downpours which resulted in destructive floods in Hyderabad and its neighbourhood. The greatest force of the winds experienced over the Bay during the storm was 8.
5	November.	1st to 3rd.	·26″	Cyclonic storm of moderate or considerable intensity.	This storm formed over the southwest of the Bay and thence travelling northwards roughly along the meridian of 84° E broke up over the Sea by the 4th. Gales were experienced by several vessels during its existence.
6	November.	9th to 12th.	7″ nearly.	Severe cyclonic storm.	This storm formed to the north of the Andamans on the 8th and advancing in a northerly direction struck the coast of Arakan at Akyab at about 23 hrs. of the 11th doing much damage to the port. The strongest winds actually experienced by vessels were of force 10.
7	December and January	30th December to 2nd January.	·31″	Probably of considerable intensity.	This storm formed to the east of Ceylon on the 29th December and crossed the Madras coast near and to the south of Negapatam on the morning of the 1st January. It then passed rapidly westwards and at 8 hours of the 2nd was situated over the southeast of the Arabian Sea. No information is available regarding its further career. The strongest winds reported by vessels affected by the storm were of force 10.

ARABIAN SEA.

No.	Month.	Date.	Greatest observed barometric depression.	Character of storm.	Details of storm.
1	October	25th to 29th.	·36″ (?)	Probably of considerable intensity.	This storm apparently formed over the Arabian Sea off the Malabar coast and advancing by a curved path disappeared over the Sea off Kuria Muria before the morning of the 30th. The strongest winds actually reported by vessels, which were however not very near to the centre, were of force 8.

Winds.

The mean direction of the wind and the mean diurnal movement of the air, as measured by Robinson anemometers, are given for all second class stations in Table A in each Monthly Weather Review. The normal values are also stated for the sake of ready comparison. The normal data of these elements, utilized in Table A of the Monthly Reviews of the year 1908 will be found in a collected form in Tables XXII, XXVI and XXVII of Vol. XVII of Indian Meteorological Memoirs. The mean 8 hrs. wind directions for each month are laid down in the first chart in each Monthly Review. They are calculated in the usual manner by finding the resultant of equal winds in the directions actually observed at 8 hrs. and given in Table B in each Monthly Review. As a general rule, the mean 8 hrs. wind directions vary little from the mean wind directions (calculated from the 10 and 16 hrs. wind data) in Table A of the Monthly Reviews, but in some cases and at certain seasons of the year they differ very considerably. The normal values used in Table B have been published in Vol. XVII of the departmental Memoirs.

The following is a summary of the more important features of the air movement over India for each period of the year 1908:—

I.—The cold weather period—

Owing mainly to the comparative rareness of the cold weather storms the air movement was remarkably steady over northwest and central India. In all other respects the anemometric conditions of the period were fairly normal.

II.—The hot weather period,—

(*a*) Winds were on the whole steadier than usual over practically the whole of the interior of the country. The velocity was almost identical with the normal.

(*b*) The direction of the air motion was unusually westerly in May at the Himalayan stations, but elsewhere the deviations from the normal type were of no significance.

(*c*) In the west of the equatorial belt, for which alone information is available, the air movement was abnormal in character during the first three weeks of May, vessels crossing the equator between 58° and 68°E experiencing light and very variable winds usually with a northerly component between south latitude 12° and the equator. In the south of the Arabian Sea also winds showed the same unsteady characters.

III.—The south-west monsoon period.—

The only strikingly abnormal features were—

(*a*) During the second half of June and the first few days of July, when the monsoon conditions over India were less pronounced than usual, light variable airs or calms prevailed over the eastern half of the equatorial belt between the parallels of 4°S and 4°N. This is an indication that the flow of the humid air into the Bay and the southeast of the Arabian Sea from the south was of less volume than usual.

(*b*) In July and August when the axis of the monsoon trough of low pressure was further south than usual the southerly element in the winds over the Indo-Gangetic Plain was either altogether suppressed or very weak and the resultant direction was on the whole from between southeast and northeast.

TABLE 59.

Station.	WIND DIRECTION.			
	JULY.		AUGUST.	
	Actual.	Normal.	Actual.	Normal.
	°	°	°	°
Chaibassa	S 36 W	S 66 W	S 69 E	S 54 W
Ranchi	S 33 W	S 63 W	N 89 E	S 56 W
Hazaribagh	S 19 W	S 40 W	S 58 E	S 5 W
Gaya	S 68 E	S 2 E	N 52 E	S 52 E
Allahabad	S 69 E	S 27 W	N 82 E	N 79 W
Cawnpore	S 63 E	S 1 E	N 86 E	S 2 W
Mainpuri	S 65 E	S 41 E	S 73 E	S 13 W
Agra	S 9 W	S 24 W	N 54 E	S 40 W
Delhi	S 81 E	S 22 E	S 52 E	S 27 W
Sirsa	S 50 E	S 16 W	S 82 E	S 42 W
Montgomery	S 23 E	S 15 E	N 85 E	S 12 W
Multan	N 51 E	S 89 W	N 40 E	S 14 E

An important effect of the deflection from the normal course of the monsoon currents as revealed by the above wind data was to diminish the rainfall over Bengal and the United Provinces and to increase it over northwest India.

(*c*) The air movement was feebler and less steady than usual, particularly in July and August over Sind and Rajputana, thus indicating that the seat of greatest ascensional movement overlay these areas.

TABLE 60.

Division.	Departure from normal of wind steadiness.					Departure from normal of hourly wind velocity.				
	June.	July.	August.	September.	Period June to September.	June.	July.	August.	September.	Period June to September.
Sind	+2	−29	−16	+5	−9	−4·6	−4·0	−3·5	−2·7	−3·7
Rajputana	+18	−20	−46	+4	−11	+1·9	−1·9	−2·2	−1·9	−1·0

(*d*) Over the rest of India the air motion was in general very steady, though the velocity was below the average.

TABLE 61.

Division.	Departure from normal of wind steadiness.					Departure from normal of hourly wind velocity.				
	June.	July.	August.	September.	Period June to September.	June.	July.	August.	September.	Period June to September.
Burma	+3	+3	−4	−13	−3	−0·3	−0·2	−0·8	−1·1	−0·6
Eastern Bengal and Assam	−1	+6	+9	−8	+1	−0·4	−0·5	−0·4	−1·2	−0·6
Bengal	−1	0	+17	+3	+5	+0·3	−0·3	+0·3	−0·9	−0·1
United Provinces	0	+7	+34	+9	+13	0	−0·5	−0·2	−0·7	−0·3
Punjab	−7	+2	+13	+8	+4	+0·4	−0·4	+0·4	−0·1	+0·1
North-West Frontier Province	−3	+10	+4	−5	+1	−0·3	+0·9	+0·7	−1·1	+0·1
Bombay	+3	+5	+5	−8	+1	−0·6	−0·1	−0·1	−2·2	−0·7
Central India	+19	0	−6	+3	+4	+0·6	−1·4	−0·7	−2·4	−1·0
Central Provinces	+13	+5	+10	−10	+5	+2·3	+0·3	+0·9	−1·2	+0·6
Hyderabad	+7	+15	+8	0	+7	+0·3	+0·1	+0·7	−2·1	−0·3
Mysore	0	−1	+8	+4	+3	+1·2	+1·7	+1·4	+0·9	+1·3
Madras	+6	+6	+5	−2	+4	+1·3	+0·7	+0·9	−0·1	+0·7

(*e*) The actions associated with the final retreat of the monsoon from northwest India showed themselves in the equatorial belt about the 3rd of September when variable winds set in.

TABLE 62.

Date.	Hour.	Name of vessel.	Position.		Wind.	
			Lat.	Long.	Direction.	Force.
3rd September 1908	8 A.M.	*Itola*	2·01 N	94·52	Var.	2
4th ,, ,,	8 A.M.	,,	1·18 S	96·37	Var.	2
5th ,, ,,	4 A.M.	*Islami*	...	...	S. W.	4
5th ,, ,,	Noon	,,	4·00 N.	65·03	S. W.	4
5th ,, ,,	8 P.M.	,,	...	...	N. W.	4
5th ,, ,,	Midnight	,,	...	...	Var.	4

IV. The retreating south-west monsoon period,—

(*a*) The air circulation was on the whole steadier than usual, more especially in northwest India: the velocity was however approximately normal or below it.

TABLE 63.

Division.	Departure from normal of wind steadiness.				Departure from normal of hourly wind velocity.			
	October.	November.	December.	Period October to December.	October.	November.	December.	Period October to December.
Burma	+4	−5	+9	+3	−0·4	−0·2	+0·2	−0·1
Eastern Bengal and Assam	−3	−5	−1	−3	−0·7	0	−0·2	−0·3
Bengal	+13	+6	+4	+8	−0·5	−0·2	−0·1	−0·3
United Provinces	+14	−2	−5	+2	0	0	−0·2	−0·1
Punjab	+7	+5	+5	+6	+0·3	0	+0·5	−0·3
North-West Frontier Province	+1	+16	−9	+3	−0·9	−1·3	−1·0	−1·1
Sind	+18	+1	+16	+12	−1·2	−0·7	−1·1	−1·0
Rajputana	+9	+2	+17	+9	−0·2	−0·6	−0·1	−0·3
Bombay	0	−8	−2	−3	−0·4	−1·1	0	−0·5
Central India	+24	+6	+5	+12	−0·8	−0·7	−0·9	−0·8
Central Provinces	+4	−2	+5	+2	−0·3	−0·3	0	−0·2
Hyderabad	+10	−5	+9	+5	−0·6	−1·5	−1·4	−1·2
Mysore	+7	−8	+5	+1	+0·7	−0·8	+0·6	+0·2
Madras	−1	+1	+6	+2	+0·3	+0·4	+1·8	+0·8

(*b*) Winds were very abnormal in direction at Port Blair in October and November, was of the type usually associated with an early retreat of the southeast trades.

TABLE 64.

Station.	Wind direction.			
	October.		November.	
	Actual.	Normal.	Actual.	Normal.
	°	°	°	°
Port Blair	S	S 68 W	S 67 W	N 72 E

The large change in November, as might be expected, accompanied excessive rainfall in Burma.

(*c*) In the west of the equatorial region as represented by the Seychelles and Zanzibar the direction of air movement during October and November

TABLE 65.

Station.	Wind direction.			
	October.		November.	
	Actual.	Normal.	Actual.	Normal.
	°	°	°	°
Seychelles	S 32 W	S 39 E	S 19 W	S 56 E
Zanzibar	S 16 E	S 6 E	N 52 E	S 36 E

The inference that the northern limit of the southeast trades was much further south than usual in October and November is fully borne out by the information contained in ship's logs.

TABLE 66.

Date.	Name of vessel.	Position at 8 A. M.		Wind.	
		Lat.	Long.	Direction.	Force.
15th October 1908	*Florida*	7·41 S	64·17	N E	6
16th „ „	*Do.*	4·41 S	65·29	N W	5
17th „ „	*Frankby*	2 30 S	87·35	Calm	0
18th „ „	*Do.*	0·03 N	85·02	Var.	2
18th „ „	*Haidari*	5·03 S	60·49	W N W	5
19th „ „	*Do.*	1·48 S	62·40	W N W	4
20th „ „	*Do.*	1·40 N	64·49	Var.	4
27th „ „	*Gouverneur*	8·25 S	63·48	S	1 to 2
28th „ „	*Do.*	4·44 S	64·54	W	1
29th „ „	*Do.*	1·13 S	65·58	W N W	2 to 1
8th November „	*Purley*	13·08 S	58·58	W	2
9th „ „	*Do.*	9·55 S	59·32	Calm	0

There is little doubt that the failure of the retreating monsoon rains was intimately connected with the abnormalities of the wind movement displayed in the above table.

Humidity.

The departures from normal of the mean monthly and annual aqueous vapour pressure and relative humidity for the year 1908 are given in Tables 67 and 68. The normal values employed in the determination of the departures are given in Tables XXX and XXXIII of the Indian Meteorological Memoirs, Volume XVII. The two tables (Tables 69 and 70) give departure data of aqueous vapour pressure and relative humidity for each month of the year and for the year for the fourteen chief political divisions.

TABLE 67.—*Departures of the monthly and annual mean vapour pressure data of 1908 from the average of past years.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		"	"	"	"	"	"	"	"	"	"	"	"	"
Burma	Rangoon	+·011	—·043	—·001	+·024	—·006	—·019	—·013	—·022	—·001	—·018	—·016	—·013	—·010
Bengal	Calcutta	—·015	—·005	—·064	—·005	—·058	—·021	—·023	—·011	+·002	—·042	—·074	—·058	—·031
United Provinces of Agra and Oudh.	Allahabad	—·044	—·058	—·118	—·135	—·146	—·176	—·020	0	—·053	—·185	—·092	—·065	—·091
	Dehra Dun	—·013	—·013	—·071	—·017	—·095	—·110	+·011	0	—·030	—·072	—·059	—·023	—·033
Punjab	Lahore	+·038	—·023	—·061	+·015	—·054	—·058	+·104	+·076	+·070	+·042	+·032	+·004	+·018
Rajputana	Jaipur	—·005	—·030	—·097	—·043	—·081	—·078	+·019	+·074	—·077	—·030	—·023	+·018	—·031
Bombay	Bombay	+·001	—·054	—·084	—·043	—·032	—·010	—·012	—·006	+·023	+·012	—·036	—·075	—·026
Central Provinces	Nagpur	—·088	—·070	—·047	—·052	—·099	—·103	—·017	+·004	+·013	—·071	—·079	—·061	—·056
Hyderabad	Hyderabad	—·055	—·135	—·106	—·142	—·154	—·098	—·027	—·031	—·005	—·066	—·154	—·089	—·089
Mysore	Bangalore	+·057	—·019	—·066	—·022	+·006	—·017	+·004	+·001	+·002	—·021	—·123	—·044	—·020
	Mysore	+·008	—·059	+·008	—·002	—·012	—·011	+·003	—·010	—·016	—·023	—·117	—·041	—·023
Madras	Madras	+·051	+·051	—·030	+·039	—·003	—·025	+·031	+·025	+·039	+·037	—·075	—·064	+·010
Station in the Bay	Port Blair	—·056	—·065	—·064	—·046	—·072	—·049	—·043	—·037	—·020	—·055	—·092	—·031	—·053
Kashmir	Srinagar	+·026	+·016	+·009	+·013	—·025	—·026	+·023	+·005	—·022	0	+·018	—·015	+·002
	Leh	+·012	+·004	+·004	—·007	—·002	—·007	+·040	+·044	+·042	—·016	—·017	—·008	—·007
Baluchistan	Quetta	+·010	—·044	—·029	—·039	—·100	—·118	+·055	—·004	—·060	?	?	—·015	?
Hill stations excluding Kashmir and Baluchistan.	Simla	—·029	—·028	—·039	—·005	—·068	—·097	+·063	—·009	—·031	—·039	—·018	0	—·030
	Chakrata	—·016	—·014	—·025	+·016	—·057	—·039	+·030	+·002	—·012	—·036	—·036	—·009	—·016
	Katmandu	—·016	+·025	—·039	—·028	—·058	—·030	—·004	—·016	+·001	—·039	—·041	—·056	—·025
	Darjeeling	+·008	+·016	+·012	+·038	—·005	+·019	+·014	+·006	+·026	+·016	+·007	—·007	+·014
	Pachmarhi	—·073	—·081	—·031	—·007	—·064	—·086	—·010	+·006	—·010	—·049	—·033	—·030	—·039
	Mount Abu	+·004	—·042	+·012	—·019	—·018	—·028	+·020	+·019	—·055	—·046	—·024	—·044	—·016
	Chikalda	—·056	—·026	—·035	—·009	—·040	—·051	+·002	+·005	+·014	—·030	—·070	—·061	—·030
Extra India	Zanzibar	—·030	—·068	—·050	+·004	—·052	+·025	+·001	—·018	—·037	—·019	—·051	—·037	—·026
	Seychelles	—·004	—·035	—·004	+·014	+·008	+·011	—·012	—·012	—·010	—·019	—·036	0	—·008
	Mauritius	+·063	—·034	—·011	—·034	0	+·017	—·002	+·035	—·007	+·005	+·027	+·047	+·009

TABLE 68.—*Departure of the monthly and annual mean relative humidity data of 1908 from the average of past years.*

DIVISION.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
BURMA	Rangoon	0	− 5	− 1	0	+ 2	− 1	− 3	− 1	− 4	− 4	+ 3	− 3	− 1
BENGAL	Calcutta	− 1	− 4	− 9	− 8	− 6	− 2	0	− 1	− 1	− 8	− 9	− 8	− 5
UNITED PROVINCES OF AGRA AND OUDH.	Allahabad	− 1	− 9	−11	−13	−13	−16	− 2	0	− 9	−17	−11	− 9	− 9
	Dehra Dun	− 5	− 5	−11	− 2	−11	−13	0	+ 1	− 6	−13	− 9	− 6	− 7
PUNJAB	Lahore	+ 1	− 7	−10	+ 5	− 5	− 7	+11	+14	+11	+ 7	+ 5	+ 2	+ 2
RAJPUTANA	Jaipur	− 2	−14	− 2	− 4	− 7	−11	+ 7	+10	− 9	− 4	− 3	− 5	− 4
BOMBAY	Bombay	− 1	− 4	− 4	− 4	− 2	− 3	0	+ 1	0	0	0	− 3	− 2
CENTRAL PROVINCES	Nagpur	− 8	− 8	− 2	− 6	− 7	−11	0	+ 4	+ 1	− 6	− 7	− 3	− 4
HYDERABAD	Hyderabad	− 5	−12	− 9	−14	−13	−11	+ 1	− 2	+ 2	− 3	−16	− 6	− 7
MYSORE	Bangalore	+ 5	− 1	− 4	− 2	+ 2	− 3	+ 3	+ 1	− 2	− 5	−16	− 6	− 2
	Mysore	0	− 6	+ 2	− 1	+ 1	− 1	+ 4	+ 2	− 4	− 4	−13	− 2	− 2
MADRAS	Madras	+ 3	+ 4	− 1	0	− 3	− 5	0	+ 1	+ 9	+ 2	− 3	− 6	0
STATION IN THE BAY	Port Blair	− 4	− 2	− 3	− 4	− 1	− 2	− 1	− 1	0	− 4	− 3	− 2	− 2
KASHMIR	Srinagar	− 6	− 6	− 4	+ 1	− 3	− 9	− 9	− 1	− 1	− 4	− 5	− 5	− 4
	Leh	− 4	0	− 6	− 3	+ 1	+ 2	+ 3	+12	+13	− 6	− 5	− 4	0
BALUCHISTAN	Quetta	− 1	−17	0	− 3	−10	−11	+ 4	− 2	− 4	P	P	0	P
HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN.	Simla	−13	−11	−11	+ 1	− 9	−18	+ 1	+ 3	− 7	− 9	− 2	+ 4	− 6
	Chakrata	−11	−10	− 8	+ 2	−11	−10	+ 4	+ 5	− 4	−10	− 7	− 2	− 5
	Katmandu	− 3	− 3	− 6	− 9	−10	− 5	− 2	− 2	− 1	− 4	− 3	− 6	− 5
	Darjeeling	− 3	+ 1	− 3	0	− 2	− 1	− 1	− 2	0	0	− 4	−13	− 2
	Pachmarhi	− 3	−13	0	0	− 3	−11	+ 3	+ 4	− 2	− 5	− 3	+ 2	− 3
	Mount Abu	+ 3	− 4	+ 3	0	− 2	− 4	+ 3	+ 3	− 9	− 5	− 4	− 7	− 1
	Chikalda	− 6	− 1	+ 1	− 1	− 3	− 3	+ 2	+ 3	− 2	− 6	−11	− 5	− 3
EXTRA INDIA	Zanzibar	− 5	− 3	− 4	− 3	− 3	+ 2	− 2	− 4	− 5	− 2	− 5	− 6	− 3
	Seychelles	− 6	− 4	− 3	0	− 2	− 3	− 3	− 3	− 3	− 4	− 5	− 2	− 3
	Mauritius	+ 7	− 2	0	− 5	− 2	+ 1	− 1	+ 1	− 2	0	+ 4	+ 5	+ 1

TABLE 69.—*Departure of the mean monthly and annual aqueous vapour pressure from the normal in the fourteen chief political divisions of India in 1908.*

Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	"	"	"	"	"	"	"	"	"	"	"	"	"
Burma	+·021	—·013	+·004	+·031	—·011	—·008	—·007	—·002	+·011	—·006	+·009	0	+·002
Eastern Bengal and Assam	—·016	+·006	—·052	+·033	—·013	—·004	—·018	—·012	—·001	—·029	—·037	—·052	—·016
Bengal	—·031	—·002	—·043	—·016	—·025	—·015	—·009	—·009	+·008	—·071	—·106	—·074	—·033
United Provinces	—·023	—·043	—·044	—·012	—·057	—·084	+·031	+·004	—·027	—·076	—·058	—·032	—·035
Punjab	+·011	—·038	—·083	+·008	—·120	—·139	+·054	+·043	+·008	+·025	+·013	+·007	—·018
North-West Frontier Province	+·051	—·021	—·061	+·029	—·098	—·206	+·081	+·052	+·042	+·067	+·033	+·002	—·002
Sind	+·055	—·016	—·016	+·046	+·016	+·028	+·064	+·052	+·012	+·060	+·056	+·027	+·032
Rajputana	+·010	—·027	—·065	—·040	—·038	—·050	+·063	+·084	—·040	+·030	+·001	—·038	—·013
Bombay	—·004	—·058	—·064	—·036	—·026	—·039	—·005	+·007	—·003	—·004	—·053	—·075	—·030
Central India	—·020	—·078	—·029	—·009	+·017	—·028	+·029	+·024	+·009	—·045	—·038	—·050	—·018
Central Provinces	—·074	—·092	—·082	—·118	—·067	—·083	—·014	—·016	—·005	—·075	—·090	—·080	—·066
Hyderabad	—·047	—·108	—·104	—·092	—·065	—·071	—·016	—·015	+·023	—·084	—·121	—·080	—·063
Mysore	+·020	—·019	—·040	+·022	—·009	—·009	+·006	+·004	—·012	—·006	—·091	—·031	—·014
Madras	+·008	—·014	—·034	—·002	—·017	—·022	—·012	—·012	+·019	—·016	—·073	—·064	—·020
Mean of India when the size of the above areas is taken into account.	—·009	—·037	—·051	—·017	—·043	—·047	+·011	+·011	+·001	—·021	—·044	—·044	—·024

TABLE 70.—*Departure of the mean monthly and annual relative humidity from the normal in the fourteen chief political divisions of India in 1908.*

Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma	+1	—1	+1	+1	—1	+1	—1	+1	+1	0	+5	+3	+1
Eastern Bengal and Assam	+1	0	—7	—2	—1	—1	—1	—3	—1	—3	—3	—4	—2
Bengal	+3	+1	—6	—4	—1	—3	0	0	0	—6	—8	—6	—3
United Provinces	—1	—9	—6	—4	—5	—14	+1	0	—4	—8	—7	—4	—5
Punjab	—1	—11	—15	+3	—6	—13	+5	+9	+4	+2	+7	+3	—1
North-West Frontier Province	+10	—6	—16	+6	—6	—17	+5	+9	+10	+7	+6	+3	+1
Sind	+12	—3	—1	+5	+2	+3	+7	+4	+3	+7	+7	+6	+4
Rajputana	+3	—3	—10	—3	—6	—7	+9	+12	0	+4	+2	—2	0
Bombay	0	—6	—6	—3	0	—4	+2	+3	—1	—2	—7	—7	—3
Central India	0	—13	—3	—1	+2	—7	+6	+5	—1	—4	—6	—6	—2
Central Provinces	—8	—13	—8	—10	—4	—10	+2	+2	—2	—8	—9	—8	—6
Hyderabad	—7	—13	—9	—11	—7	—10	+2	0	+5	—5	—9	—8	—6
Mysore	+3	—1	—2	+2	+2	—2	+4	+3	—2	—2	—13	—2	—1
Madras	0	0	—1	—1	—1	—4	0	—1	+3	—1	—6	—4	—1
Mean of India when the size of the above areas is taken into account.	0	—5	—6	—2	—2	—6	+2	+3	+1	—2	—3	—3	—2

I.—The cold weather period.

(*a*) Except in the North-West Frontier Province and Sind, the humidity of the period, estimated both absolutely and relatively, was either about equal to the average or below it. The dryness was greatest in the Central Provinces and Hyderabad: it was considerable also in Central India. Contrary to the usual rule there was no close relationship between these abnormalities and those of temperature and rainfall, temperature being practically normal and the rainfall appreciably in excess in most parts of the plains of India.

TABLE 71.

Division.	Departure of mean 8 hrs. vapour pressure from normal.			Departure of mean 8 hrs relative humidity from normal.		
	January.	February.	Period January and February.	January.	February.	Period January and February.
	"	"	"			
Burma	+·021	—·013	+·004	+1	—1	0
Eastern Bengal and Assam.	—·016	+·006	—·005	+1	0	+1
Bengal	—·031	—·002	—·017	+3	+1	+2
United Provinces	—·023	—·043	—·033	—1	—9	—5
Punjab	+·011	—·038	—·014	—1	—11	—6
North-West Frontier Province.	+·051	—·021	+·015	+10	—6	+2
Sind	+·055	—·016	+·020	+12	—3	+5
Rajputana	+·010	—·027	—·009	+3	—3	0
Bombay	—·004	—·058	—·031	0	—6	—3
Central India	—·020	—·078	—·049	0	—13	—7
Central Provinces	—·074	—·092	—·083	—8	—13	—11
Hyderabad	—·047	—·108	—·078	—7	—13	—10
Mysore	+·020	—·019	+·001	+3	—1	+1
Madras	+·008	—·014	—·003	0	0	0

(*b*) The dryness of the air was not a phenomenon of the lower atmosphere merely, for at almost all the hill stations below the level of Leh, which is over 11,000 feet in height, the humidity was as much in defect as in the plains below.

TABLE 72.

Station.	Departure of mean 8 hrs. vapour pressure from normal.			Departure of mean 8 hrs. relative humidity from normal.		
	January.	February.	Period January and February.	January.	February.	Period January and February.
	"	"	"			
Chaman	+·036	—·030	+·003	+4	+2	—3
Quetta	+·010	—·036	—·013	+3	—11	—4
Cherat	+·008	—·018	—·005	—5	—8	—7
Murree	—·004	—·035	—·020	—10	—11	—11
Gilgit	+·005	+·020	+·013	—6	+4	—1
Srinagar	+·004	—·001	+·002	—3	—6	—3
Simla	—·017	—·018	—·018	—10	—9	—10
Leh	+·022	+·013	+·018	+3	+4	+4
Chakrata	—·007	—·020	—·014	—9	—12	—11
Darjeeling	—·001	+·010	+·005	—3	—3	—3
Mount Abu	+·010	—·071	—·031	+4	—16	—6
Pachmarhi	—·056	—·093	—·075	+6	—11	—3

(*c*) In Persia and Arabia the conditions were similar in their general character to those of India.

TABLE 73.

Station.	Departure of mean 8 hrs. vapour pressure from normal.			Departure of mean 8 hrs. relative humidity from normal.		
	January.	February.	Period January and February.	January.	February.	Period January and February.
	"	"	"			
Perim	+·035	—·064	—·025	+2	—2	—3
Baghdad	—·033	—·055	—·047	—6	—2	—3
Aden	+·017	—·079	—·031	+3	—4	—2
Bushire	+·004	—·053	—·025	+3	—2	+1
Tehran	+·017	—·022	—·003	+12	+6	+9
Ispahan	+·002	—·042	—·020	0	—5	—3
Jask	+·068	—·031	+·019	+4	—6	—1
Muscat	—·014	—·068	—·041	—1	—9	—5

II.—The hot weather period.

(*a*) The dryness of the atmosphere in this period was as general, and in most provinces as great, as in the cold season.

TABLE 74.

Division.	DEPARTURE OF MEAN 8 HRS. VAPOUR PRESSURE FROM NORMAL.				DEPARTURE OF MEAN 8 HRS. RELATIVE HUMIDITY FROM NORMAL.			
	March.	April.	May.	Period, March to May.	March	April.	May.	Period, March to May.
	"	"	"	"				
Burma	+·004	+·031	—·011	+·008	+1	+1	—1	0
Eastern Bengal and Assam	—·052	+·033	—·013	—·011	—7	—2	—1	—3
Bengal	—·043	—·016	—·025	—·028	—6	—4	—1	—4
United Provinces	—·044	—·012	—·057	—·038	—6	—4	—5	—5
Punjab	—·083	+·008	—·120	—·065	—15	+3	—6	—6
North-West Frontier Province	—·061	+·029	—·098	—·043	—16	+6	—6	—5
Sind	—·016	+·046	+·016	+·015	—1	+5	+2	+2
Rajputana	—·065	—·040	—·088	—·064	—10	—3	—6	—6
Bombay	—·064	—·036	—·026	—·042	—6	—3	0	—3
Central India	—·029	—·009	+·017	—·007	—3	—1	+2	—1
Central Provinces	—·082	—·118	—·067	—·089	—8	—10	—4	—7
Hyderabad	—·104	—·092	—·085	—·094	—9	—11	—7	—9
Mysore	—·040	+·022	—·009	—·009	—2	+2	+2	+1
Madras	—·034	—·002	—·017	—·018	—1	—1	—1	—1

There was a marked parallelism between the abnormal features of the hygrometric conditions and those of rainfall.

(*b*) The air was as dry in the hill districts as in the plains. Further west in Persia the conditions were variable.

TABLE 75.

Station.	DEPARTURE OF MEAN 8 HRS. VAPOUR PRESSURE FROM NORMAL.				DEPARTURE OF MEAN 8 HRS. RELATIVE HUMIDITY FROM NORMAL.			
	March.	April.	May	Period, March to May.	March.	April.	May.	Period, March to May.
	"	"	"	"				
Perim	—·056	—·041	—·014	—·037	—3	+1	0	—1
Baghdad	—·054	—·033	—·031	—·039	—9	—5	—5	—6
Aden	—·042	+·033	—·005	—·005	—1	+3	+1	+1
Bushire	—·021	+·001	+·091	+·024	+1	0	+10	+4
Tehran	+·013	+·031	+·066	+·037	+20	+17	+21	+19
Ispahan	—·070	—·065	—·153	—·096	—1	+1	—6	—2
Jask	—·008	+·024	—·023	—·002	—2	+7	—3	+1
Muscat	—·027	—·042	—·085	—·051	—4	—5	—10	—6

Station.	Departure of mean 8 hrs. vapour pressure from normal.				Departure of mean 8 hrs. relative humidity from normal.			
	March.	April.	May.	Period, March to May.	March.	April.	May.	Period, March to May.
	"	"	"	"				
Chaman	—·024	—·015	—·086	—·042	—2	—5	—3	—3
Quetta	—·018	—·039	—·181	—·063	+1	—5	—16	—7
Cherat	—·020	—·040	—·026	—·002	—4	+13	+3	+4
Murree	+·021	+·022	0	+·014	+4	+6	0	+3
Gilgit	+·020	+·111	+·034	+·035	0	+23	+14	+12
Kashgar	...	+·011	—·076	...	...	+1	—12	...
Srinagar	—·025	—·014	—·036	—·025	—6	0	0	—2
Simla	—·021	+·002	—·064	—·028	—8	+1	—10	—6
Leh	—·006	—·007	—·029	—·014	—9	—5	—10	—8
Chakrata	—·018	+·017	—·045	—·015	—6	+3	—6	—3
Darjeeling	—·008	+·032	—·025	0	—9	—4	—7	—7
Mount Abu	—·002	—·027	—·038	—·021	—1	—3	—4	—2
Pachmarhi	—·026	—·029	—·072	—·042	+5	0	—6	0

III.—The south-west monsoon period.

Owing to the long delay in the establishment of the monsoon conditions the air was excessively dry during June over practically the whole of India. During the remainder of the period, when the monsoon currents prevailed with great steadiness in most parts of the country, the hygrometric conditions agreed fairly well with the normal except in the region of abundant rainfall in northwest India where on the whole the air was much damper than usual.

As a net result the humidity of the period did not differ appreciably from the normal anywhere in the plains of India.

TABLE 76.

Division.	Departure of mean 8 hrs. vapour pressure from normal.					Departure of mean 8 hrs. relative humidity from normal.				
	June.	July.	August.	September.	Period, June to September.	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"					
Burma	—·008	—·007	—·002	+·011	—·002	+1	—1	+1	+1	+1
Eastern Bengal and Assam	—·004	—·018	—·012	—·001	—·009	—1	—1	—3	—1	—2
Bengal	—·015	—·008	—·009	+·008	—·006	—3	0	0	0	—1
United Provinces	—·084	+·031	+·004	—·027	—·019	—14	+1	0	—4	—4
Punjab	—·139	+·054	+·043	+·008	—·009	—13	+5	+9	+4	+1
North-West Frontier Province	—·206	+·081	+·052	+·042	—·008	—17	+5	+9	+10	+2
Sind	+·028	+·064	+·052	+·012	+·039	+3	+7	+4	+3	+4
Rajputana	—·050	+·063	+·084	—·040	+·014	—7	+9	+12	0	+4
Bombay	—·039	—·005	+·007	—·003	—·010	—4	+2	+3	—1	0
Central India	—·028	+·029	+·024	+·009	+·009	—7	+6	+5	—1	+1
Central Provinces	—·083	—·014	—·016	—·005	—·030	—10	+2	+2	—2	—2
Hyderabad	—·071	—·016	—·015	+·023	—·020	—10	+2	0	+5	—1
Mysore	—·009	+·006	+·004	—·012	—·003	—2	+4	+3	—2	+1
Madras	—·022	—·012	—·012	+·019	—·007	—4	0	—1	+3	—1

(*a*) In the hill districts the departures from normal were as small as in the adjacent plains :—

TABLE 77.

Station.	Departure of mean 8 hrs. vapour pressure from normal.					Departure of mean 8 hrs. relative humidity from normal.				
	June.	July.	August.	September.	Period, June to September.	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"					
Sim	—·021	—·067	—·041	—·019	—·037	—2	—6	—3	—3	—4
ghdad	—·026	—·105	—·165	—·067	—·091	—3	—2	—10	—8	—6
Aden	+·044	—·020	+·038	+·014	+·023	+3	+2	+4	+1	+3
Bushire	+·148	+·073	+·070	+·123	+·104	+10	+13	+7	+9	+10
Tehran	+·208	+·227	+·251	+·098	+·196	+23	+24	+30	+22	+26
Ispahan	—·126	—·086	—·040	—·032	—·071	—3	—1	+1	+1	—1
Jask	+·147	+·062	—·007	+·013	+·054	+12	+9	+5	+2	+7
Muscat	—·085	+·022	+·071	—·081	—·018	+10	+6	+1	—11	—4
Chaman	—·017	+·026	—·046	—·028	—·016	+4	+3	—3	+1	+1
Quetta	—·156	+·035	+·024	—·097	—·049	—16	+2	—2	—13	—
Cherat	—·233	+·033	+·088	+·088	—·019	—24	+6	+17	+18	+4
Murree	—·015	+·059	+·051	+·023	+·030	—11	+10	+13	+6	+5
Gilgit	—·006	+·034	—·027	+·040	+·010	+3	—1	—4	+10	+2
Kashgar	—·084	—·018	—·055	—·004	—·040	—5	—7	—11	—3	—7
Srinagar	—·079	+·011	—·002	—·045	—·029	—5	—7	—1	—1	—4
Simla	—·105	+·009	—·013	—·036	—·036	—20	+2	0	—7	—6
Leh	—·023	+·030	+·026	+·033	+·017	—1	+1	+6	+11	+4
Chakrata	—·054	+·008	—·007	—·006	—·015	—12	+1	+2	—3	—3
Darjeeling	+·006	+·003	—·002	+·019	+·007	—1	—3	—4	0	—2
Mount Abu	—·024	+·015	+·056	—·008	+·010	—3	+1	+3	—2	0
Pachmarhi	—·059	—·017	+·020	—·009	—·016	—9	+2	+5	—3	—1

IV.—The retreating south-west monsoon period.

(*a*) With the important exception of the Punjab, the North-West Frontier Province, and Sind, where the humidity was locally excessive, this too was a dry period in all parts of India proper. The driest tract comprised Bengal, the Central Provinces and Hyderabad. The high humidity of upper India was probably due mainly to the evaporation of the unusually heavy rainfall of the monsoon period.

TABLE 78.

Division.	Departure of mean 8 hrs. vapour pressure from normal.				Departure of mean 8 hrs relative humidity from normal.			
	October.	November.	December.	Period, October to December.	October.	November.	December.	Period, October to December.
	"	"	"	"				
Burma	—·006	+·009	0	+·001	0	+ 5	+ 3	+ 3
Eastern Bengal and Assam	—·029	—·037	—·052	—·039	— 3	— 3	— 4	— 3
Bengal	—·071	—·106	—·074	—·084	— 6	— 8	— 6	— 7
United Provinces	—·076	—·058	—·032	—·055	— 8	— 7	— 4	— 6
Punjab	+·025	+·013	+·007	+·015	+ 2	+ 7	+ 3	+ 4
North-West Frontier Province	+·067	+·033	+·002	+·034	+ 7	+ 6	+ 3	+ 5
Sind	+·060	+·056	+·027	+·048	+ 7	+ 7	+ 6	+ 7
Rajputana	+·030	+·001	—·038	—·002	+ 4	+ 2	— 2	+ 1
Bombay	—·004	—·053	—·075	—·044	— 2	— 7	— 7	— 5
Central India	—·045	—·038	—·050	—·044	— 4	— 6	— 6	— 5
Central Provinces	—·075	—·090	—·080	—·082	— 8	— 9	— 8	— 8
Hyderabad	—·084	—·121	—·080	—·078	— 5	— 9	— 8	— 7
Mysore	—·006	—·091	—·031	—·043	— 2	—13	— 2	— 6
Madras	—·016	—·073	—·064	—·051	— 1	— 6	— 4	— 4

(*b*) The abnormal dampness in upper India was restricted entirely to the lower strata of the atmosphere for at most of the hill stations the vapour pressure and relative humidity both ranged below the average. Conditions were different in Persia where the air was generally damper than usual in both respects.

TABLE 79.

Station.	Departure of mean 8 hrs. vapour pressure from normal.				Departure of mean 8 hrs. relative humidity from normal.			
	October.	November.	December.	Period, October to December.	October.	November.	December.	Period, October to December.
	"	"	"	"				
Perim	—·002	—·015	—·024	—·014	— 1	— 4	— 4	— 3
Baghdad	—·118	—·081	—·069	—·073	—17	— 7	— 6	—10
Aden	+·048	+·012	0	+·020	+ 2	— 3	+ 1	0
Bushire	+·019	+·028	+·033	+·027	+ 6	+ 7	+ 9	+ 7
Tehran	...	...	+·009	...	...	...	+12	...
Ispahan	—·011	—·034	—·006	—·017	— 1	0	+ 6	+ 2
Jask	+·003	+·007	+·046	+·019	+ 4	+ 2	+ 6	+ 4

Station.	Departure of mean 8 hrs. vapour pressure from normal.				Departure of mean 8 hrs. relative humidity from normal.			
	October.	November.	December.	Period, October to December.	October.	November.	December.	Period, October to December.
	"	"	"	"				
Muscat	—·022	—·094	—·039	—·052	— 3	— 9	— 2	— 5
Chaman	+·019	—·061	—·026	—·023	+ 8	—10	— 4	— 2
Quetta	—·032	—·024	—·014	—·023	— 6	+ 1	— 1	— 2
Cherat	+·021	+·038	+·050	+·036	+ 7	+13	+22	+14
Murree	+·006	+·029	+·035	+·023	+ 2	+ 8	+17	+ 9
Gilgit	—·032	—·005	+·012	—·008	+ 5	— 1	+ 6	+ 3
Srinagar	—·030	—·015	—·019	—·021	— 3	— 7	— 6	— 5
Simla	—·016	+·004	+·010	—·001	— 7	+ 3	+ 7	+ 1
Leh	—·036	—·048	+·002	—·027	—17	—26	— 6	—16
Chakrata	—·042	—·031	—·011	—·028	— 9	— 5	— 1	— 5
Darjeeling	—·013	—·011	—·031	—·018	— 9	— 7	—20	—12
Mount Abu	—·027	—·021	—·051	—·033	— 3	— 3	— 9	— 5
Pachmarhi	—·019	—·050	—·051	—·040	0	— 4	— 1	— 2

The year:—

On the average of the year and of the whole country the humidity, both absolute and relative, was below the average. The only months in which on the mean of all the stations the air was damper than usual were July, August and September and only in the first two was the excess at all appreciable. On the other hand the air was considerably drier than usual, more especially as regards the amount of vapour, in February, March, May, June, November and December. These departures from the normal were largely conditioned by the character of the precipitation, except in the case of January and September.

The statement below illustrates the relationship of the abnormalities of humidity with those of rainfall and temperature:—

Table 80.

	Departure from normal of the Indian area.												
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Vapour pressure at 8 hrs.	—·009	—·037	—·051	—·017	—·043	—·047	+·011	+·011	+·001	—·021	—·044	—·044	—·024
Relative humidity at 8 hrs.	0	—5	—6	—2	—2	—6	+2	+3	+1	—2	—3	—3	—2
Temperature	—0·4	+0·2	—1·2	+1·2	+0·2	+1·6	—0·7	—0·9	—0·4	0	—0·7	—1·2	—0·2
Rainfall (percentage)	+48	—13	—53	—18	—22	—17	+16	+22	—8	—37	+2*	—80	—1

* The month's rainfall was short of the normal all over the country with the exception of Burma.

The larger local departures were unusually persistent: thus the vapour tension was in defect throughout the year in the Central Provinces and in eleven months in Bengal, Bombay and Hyderabad, while it was in excess in Sind in ten of the twelve months.

Cloud.

Normal values of the mean monthly and annual amount of cloud at second class stations have been obtained from the whole of the available data up to the end of the year 1899 given in Tables XXXV and XXXVI of the Indian Meteorological Memoirs, Vol. XVII. These means are the arithmetical averages of the cloud amounts as registered at 10 and 16 hrs. and hence represent the mean amount during the day period rather than of the whole 24 hours.

Departure data of this element of meteorological observation for first and second class stations for the year 1908 are given in Table 81. Table 82 gives the departures of the 8 hrs. cloud for the fourteen chief political provinces of India.

Table 81.—Departure of the monthly and annual mean cloud proportion of 1908 from the average of past years.

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma	Rangoon	+0·6	−0·6	−0·5	−0·1	+0·8	+0·1	+0·1	+0·5	0	+0·4	+1·3	+0·5	+0·3
Bengal	Calcutta	+0·5	−0·6	−0·1	−1·2	−0·1	−0·5	−0·1	−0·4	−0·2	−1·5	−0·3	−0·4	−0·4
United Provinces of Agra and Oudh.	Allahabad	−0·2	−0·4	+0·3	−0·5	−0·4	−1·3	0	+0·4	−0·4	−1·4	−1·2	−1·1	−0·5
	Dehra Dun	0	−1·5	−1·1	+0·9	−1·2	−0·7	+0·1	+1·0	−1·6	−0·9	−0·4	−0·4	−0·5
Punjab	Lahore	+0·1	−1·8	−0·7	−0·3	−1·1	−1·9	+0·8	+2·5	−0·1	−0·8	−0·6	−0·6	−0·4
Rajputana	Jaipur	−0·8	−2·2	−0·8	0	−0·8	−1·9	+1·1	+1·2	−1·3	−0·3	−0·7	−1·5	−0·7
Bombay	Bombay	+0·3	−0·6	−0·3	−0·6	−0·1	0	+1·0	+1·1	+0·4	0	−1·3	−1·2	−0·1
Central Provinces	Nagpur	−0·7	−1·2	−0·1	−0·7	−0·9	−0·7	−0·5	−0·1	−1·0	−0·9	−1·2	−0·8	−0·7
Hyderabad	Hyderabad	+1·2	−0·3	+1·0	+0·2	+0·5	+0·8	+1·0	+0·6	+2·1	+2·6	−1·3	+0·1	+0·7
Mysore	Mysore	+0·4	+1·0	+1·8	−0·7	−1·3	0	+0·6	+0·5	+0·3	−0·9	−2·7	+0·6	0
Madras	Madras	−1·1	−0·4	+0·8	−1·1	−0·1	−0·2	+0·1	0	−0·6	−0·9	−1·4	−0·8	−0·5
Station in the Bay	Port Blair	+0·7	+2·0	+0·6	+1·8	+1·5	+1·5	+0·8	+1·5	+1·3	+1·2	+1·0	+1·5	+1·3
Kashmir	Srinagar	0	0	−0·5	+0·7	+0·9	−0·7	+0·2	+2·2	+1·0	−1·0	−1·3	+0·8	+0·2
	Leh	+0·2	−0·2	−0·3	−0·1	+0·1	−0·6	−1·1	+0·5	+1·2	−1·6	−0·5	+0·9	−0·1
Baluchistan	Quetta	0	−1·8	0	+0·5	−1·2	−1·0	+2·0	−0·3	−0·2	−0·6	−1·0	−0·3	−0·3
Hill Stations excluding Kashmir and Baluchistan.	Simla	+0·6	−1·6	−1·1	+0	−0·7	−2·9	+0·5	+0·7	−1·8	−0·3	+0·3	0	−0·5
	Chakrata	−0·7	−2·2	−1·8	−0·5	−1·3	−1·2	+0·2	+0·9	−1·9	−1·0	−0·5	−0·9	−0·9
	Katmandu	−1·1	−0·7	−1·3	−2·1	−1·6	−0·5	−0·7	−0·6	−1·9	−2·5	−1·9	−2·1	−1·4
	Darjeeling	−0·6	+0·3	+1·2	0	+0·3	−0·2	−1·1	−1·1	−0·5	−0·3	−0·8	−1·4	−0·4
	Pachmarhi	−1·9	−1·9	−1·3	−2·3	−2·6	−3·8	−0·2	+0·4	−3·0	−3·2	−2·0	−2·1	−2·0
	Mount Abu	−0·5	−1·9	+0·1	−0·5	−1·0	+0·1	+1·3	+1·6	−1·1	−0·7	−0·9	−0·9	−0·4
	Chikalda	+0·4	−0·8	+0·8	+0·6	+0·3	−0·4	−0·2	0	−0·8	+1·7	−0·5	−1·7	−0·1
Extra India	Zanzibar	+0·1	+1·2	−0·1	+0·5	+1·2	+1·3	+1·0	+0·5	+0·5	+0·2	−0·2	0	−0·5
	Seychelles	−0·3	+1·0	−1·8	+0·8	−0·2	−1·2	+1·0	−0·3	+1·0	−0·5	−0·5	+0·3	−0·1
	Mauritius	+0·7	−0·5	+0·1	−0·6	−0·1	+0·3	+0·1	+0·3	+0·2	−0·3	+0·2	+0·7	+0·1

TABLE 82.—*Departure of the mean monthly and annual cloud amount from normal in the fourteen chief political divisions of India in 1908.*

Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma	+0·1	—0·5	—0·2	—0·7	—0·5	+0·4	—0·8	+0·1	—0·5	—0·6	+1·4	—0·7	—0·2
Eastern Bengal and Assam	+1·4	+0·7	—1·1	—1·0	—1·1	—0·5	—2·0	—2·4	—1·5	—1·6	—0·3	—1·2	—0·9
Bengal	+1·2	+0·1	—0·4	—0·3	—0·5	—0·1	—0·4	—0·3	—0·5	—1·2	—0·1	—0·4	—0·3
United Provinces	+1·1	—1·5	—0·6	—0·4	—0·5	—2·1	—0·5	—0·2	—1·5	—0·8	—0·8	—0·9	—0·7
Punjab	—0·3	—1·7	—0·7	+0·3	—0·7	—1·2	+0·7	+2·0	—0·2	—0·4	—0·8	+1·0	—0·3
North-West Frontier Province	+0·2	—0·9	—0·1	+2·0	—0·4	—0·4	+0·4	+1·2	+1·4	—0·6	—1·5	—0·5	—0·1
Sind	0	—1·0	—0·3	+0·6	—0·6	—0·2	+1·3	+1·0	+0·2	+0·1	—1·4	—1·2	—0·1
Rajputana	—0·6	—1·9	—0·5	—0·1	—0·9	—1·8	+0·3	+2·0	—1·3	—0·2	—1·2	—1·7	—0·7
Bombay	+0·5	—0·1	—0·3	—0·5	—0·6	—0·9	+0·7	+0·6	—0·2	+0·1	—0·9	—0·8	—0·2
Central India	+0·7	—0·3	+1·0	+0·8	+0·8	+0·7	+1·8	+1·5	—1·0	+0·2	—0·6	—0·6	+0·4
Central Provinces	+0·4	—0·3	+0·3	+0·2	—0·4	0	+1·0	+1·0	0	—0·3	—0·7	—1·0	0
Hyderabad	+1·2	+0·1	+0·6	+0·1	+0·2	—0·2	+1·3	0	+1·6	+0·9	—1·1	+0·2	+0·4
Mysore	+0·3	+0·7	+1·3	—0·8	—0·9	—0·8	+0·7	+0·4	—0·4	—1·4	—2·3	0	—0·3
Madras	+0·3	+0·7	+0·9	—0·3	—0·3	—0·1	+0·5	0	0	—0·6	—0·9	+0·3	+0·1
Mean of India when the size of the above areas is taken into account.	+0·5	—0·4	—0·1	—0·2	—0·5	—0·5	+0·3	+0·4	—0·4	—0·5	—0·6	—0·7	—0·2

I.—The cold weather period.

The anomalous features of the cloud distribution were opposite in character in the two months and in the main agreed with those of the rainfall: thus in January the proportion of cloud exceeded the normal in almost all parts of the country, whereas in February the estimated amount fell short of the average everywhere except locally in northeast India, Hyderabad, Mysore and Madras.

On the mean of the whole period there was a decided defect in the Punjab and Rajputana, and a decided excess in Madras, Hyderabad, Bengal, and Eastern Bengal and Assam; elsewhere the departures from the normal were not of much significance.

TABLE 83.

Division.	Departure of mean 8 hrs. cloud amount from normal.		
	January.	February.	Period January and February.
Burma	+0·1	—0·5	—0·2
Eastern Bengal and Assam	+1·4	+0·7	+1·1
Bengal	+1·2	+0·1	+0·7
United Provinces	+1·1	—1·5	—0·2
Punjab	—0·3	—1·7	—1·0
North-West Frontier Province ...	+0·2	—0·9	—0·4
Sind	0	—1·0	—0·5
Rajputana	—0·6	—1·9	—1·3
Bombay	+0·5	—0·1	+0·2
Central India	+0·7	—0·3	+0·2
Central Provinces	+0·4	—0·3	+0·1
Hyderabad	+1·2	+0·1	+0·7
Mysore	+0·3	+0·7	+0·5
Madras	+0·3	+0·7	+0·5

In the hill districts of northern India and Baluchistan there was on the average of the period an almost general defect of cloud, greatest in the Satpuras and also in Sikkim, but further west in Afghanistan and Persia the skies were covered to a somewhat greater extent than usual.

TABLE 84.

Station.	Departure of mean 8 hrs. cloud amount from normal.		
	January.	February.	Period January and February.
Aden	+0·2	—2·0	—0·9
Baghdad	+1·4	+0·1	+0·8
Bushire	+1·4	...	...
Jask	+1·3	—1·1	+0·1
Kabul	+2·8	0	+1·6
Chaman	—0·6	—1·6	—1·1
Quetta	+0·8	—1·6	—0·5
Chorai	—0·6	—0·1	—0·4
Murree	—0·6	—0·5	—0·6
Gilgit	+0·9	+0·6	+0·8
Srinagar	—0·8	+1·1	—1·0
Leh	+0·7	+0·3	+0·5
Simla	+0·7	—1·3	—0·3
Chakrata	—0·7	—1·2	—1·0
Darjeeling...	—1·3	—1·0	—1·2
Mount Abu	—0·5	—1·3	—0·9
Pachmarhi	—1·3	—1·2	—1·3

II.—The hot weather period.

Except in the North-West Frontier Province, Central India, the Central Provinces, Hyderabad and Madras the cloud proportion was below the average of the period throughout the Indian area. The departures from the normal were in general not very marked.

TABLE 85.

Division.	Departure of mean 8 hrs. cloud amount from normal.			
	March.	April.	May.	Period March to May.
Burma	—0·2	—0·7	—0·5	—0·5
Eastern Bengal and Assam . .	—1·1	—1·0	—1·1	—1·1
Bengal	—0·4	—0·3	—0·5	—0·6
United Provinces	—0·6	—0·4	—0·5	—0·5
Punjab	—0·7	+0·3	—0·7	—0·4
North-West Frontier Province .	—0·1	+2·0	—0·4	+0·5
Sind	—0·3	+0·6	—0·6	—0·1
Rajputana	—0·5	—0·1	—0·9	—0·5
Bombay	—0·3	—0·5	—0·6	—0·5
Central India	+1·0	+0·3	+0·8	+0·3
Central Provinces . . .	+0·3	+0·2	—0·4	0
Hyderabad	+0·6	+0·1	+0·2	+0·3
Mysore	+1·3	—0·3	—0·9	—0·1
Madras	+0·9	—0·3	—0·3	+0·1

A comparison of the monthly departures with the corresponding rainfall data shows that the abnormalities of the two elements were fairly similar.

In Arabia, Persia, Afghanistan and parts of Kashmir the quantity of cloud was in excess in all the three months. This is probably an indication that the winter conditions there were even more protracted than in the mountain region overlooking the plains of upper India.

TABLE 86.

Station.	Departure of mean 8 hrs. cloud amount from normal.			
	March.	April.	May.	Period March to May.
Aden	+0·3	+0·9	+0·3	+0·7
Baghdad	+0·9	+1·4	+0·2	+0·8
Bushire	+1·7	+1·6	+0·5	+1·3
Jask	+0·8	+0·1	—0·7	+0·1
Kabul	+0·9	+1·6	+1·0	+1·2
Chaman	—0·2	+1·4	+0·1	+0·4
Quetta	—0·1	—0·5	—0·7	—0·4
Chorai	—3·3	+0·6	—1·6	—1·4
Murree	—2·7	+0·4	—1·7	—1·3
Gilgit	+1·0	+1·6	+1·4	+1·3
Srinagar	—1·0	+1·3	+0·1	+0·1
Leh	—0·5	—0·7	+0·6	—0·2
Simla	—0·4	—0·3	—1·4	—0·7
Chakrata	—1·0	+0·2	—0·5	—0·4
Darjeeling	0	—0·1	—0·4	—0·2
Mount Abu	+0·7	+0·4	—0·7	+0·2
Pachmarhi	—0·5	—1·1	—1·4	—1·0

III.—The south-west monsoon period.

As is ordinarily the case, the departures from normal of cloud during this period were with one or two exceptions parallel with those of rainfall: thus the proportion of cloud was on the whole high over the greater part of northwest India, the peninsula and central India, areas of excess of rainfall, and was low in Burma, northeast India and the United Provinces which constituted the region of deficient rainfall.

TABLE 87.

Division.	DEPARTURE OF MEAN 8 HRS. CLOUD AMOUNT FROM NORMAL.				
	June.	July.	August.	September.	Period, June to September.
Burma	+0·4	—0·3	+0·1	—0·5	—0·1
Eastern Bengal and Assam.	—0·5	—2·0	—2·4	—1·5	—1·6
Bengal	—0·1	—0·4	—0·3	—0·5	—0·3
United Provinces	—2·1	—0·5	—0·2	—1·5	—1·1
Punjab	—1·2	+0·7	+2·0	—0·2	+0·3
North-West Frontier Province.	—0·4	+0·4	+1·2	+1·4	+0·7
Sind	—0·2	+1·3	+1·0	+0·2	+0·6
Rajputana	—1·3	+0·3	+2·0	—1·3	—0·2
Bombay	—0·9	+0·7	+0·6	—0·2	+0·1
Central India	+0·7	+1·3	+1·5	—1·0	+0·3
Central Provinces	0	+1·0	+1·0	0	+0·5
Hyderabad	—0·2	+1·3	0	+1·6	+0·7
Mysore	—0·8	+0·7	+0·4	—0·6	0
Madras	—0·1	+0·5	0	0	+0·1

In the hill districts of northwest India cloud was as much in excess as in the plains below. In Persia and Afghanistan the departures from the normal were not pronounced.

TABLE 88.

Station.	DEPARTURE OF MEAN 8 HRS. CLOUD AMOUNT FROM NORMAL.				
	June.	July.	August.	September.	Period, June to September.
Aden	+0·2	—0·9	+0·3	+0·1	+0·1
Baghdad	+0·9	0	+0·1	+0·7	+0·4
Bushire	0	—0·6	...	...	...
Jask	—0·3	+1·3	+0·1	—1·1	0
Kabul	—0·3	—0·2	—0·1	+0·8	+0·1
Chaman	—0·5	+1·0	+0·1	+0·2	+0·2
Quetta	—0·6	+1·4	—0·2	+0·3	+0·2
Cherat	—2·0	+0·9	+2·3	+0·9	+0·5
Murree	—2·4	+2·0	+3·5	+0·7	+1·0
Gilgit	+0·2	—1·3	—0·9	+1·5	—0·1
Srinagar	—1·7	—0·2	+1·8	+0·3	+0·1
Leh	+1·5	+0·2	+2·4	+2·4	+1·6
Simla	—2·6	—0·1	+1·5	—1·6	—0·7
Chakrata	—0·3	+1·1	+3·0	—0·9	+0·7
Darjeeling	+0·1	—1·0	—1·2	—0·5	—0·7
Mount Abu	+0·9	+0·9	+1·3	—0·1	+0·6
Pachmarhi	—2·5	+0·7	+0·5	—2·3	—0·9

IV.—The retreating south-west monsoon period.—

Skies were much clearer than usual in this period throughout the country with the exception of Burma and Hyderabad both of which divisions recorded the average amount of cloud. These features were in general related directly to the anomalies of rainfall.

TABLE 89.

Division.	DEPARTURE OF MEAN 8 HRS. CLOUD AMOUNT FROM NORMAL.			
	October.	November.	December.	Period October to December.
Burma	—0·8	+1·4	—0·7	0
Eastern Bengal and Assam	—1·6	—0·3	—1·2	—1·0
Bengal	—1·2	—0·1	—0·4	—0·6
United Provinces	—0·8	—0·8	—0·9	—0·8
Punjab	—0·4	—0·8	—1·0	—0·7
North-West Frontier Province	—0·6	—1·3	—0·5	—0·9
Sind	+0·1	—1·4	—1·2	—0·8
Rajputana	—0·2	—1·2	—1·7	—1·0
Bombay	+0·1	—0·9	—0·8	—0·5
Central India	+0·2	+0·6	—0·6	—0·3
Central Provinces	—0·3	—0·7	—1·0	—0·7
Hyderabad	+0·9	—1·1	+0·2	0
Mysore	—1·4	—2·3	0	—1·2
Madras	—0·6	—0·9	+0·3	—0·4

On the average of the period the cloud amount was as largely below normal in the Himalayas and Baluchistan as in the adjacent plains. In Persia on the other hand the cloud proportion exceeded the average.

TABLE 90.

Station.	Departure of mean 8 hrs. cloud amount.			
	October.	November.	December.	Period October to December.
Aden	−0·1	−0·4	+0·9	+0·1
Baghdad	+1·0	+1·3	+1·0	+1·3
Bushire	−0·6	−0·2	+2·2	+0·5
Jask	−0·2	−1·7	−0·3	−0·7
Kabul	−0·5	−0·8	+0·7	−0·2
Chaman	−0·5	−1·0	−0·1	−0·5
Quetta	−0·4	−1·7	−1·0	−1·0
Cherat	−0·6	−2·0	−1·5	−1·4
Murree	0	−1·7	+0·3	−0·5
Gilgit	−0·6	−1·1	+0·4	−0·4
Srinagar	−1·2	−2·1	0	−1·1
Leh	−0·3	−0·3	+1·0	−0·2
Simla	−0·2	−0·8	−0·1	−0·4
Chakrata	−0·5	−0·8	−0·8	−0·7
Darjeeling	−1·5	−2·5	−2·1	−2·0
Mount Abu	+0·2	−1·7	−0·7	−0·7
Pachmarhi	−1·8	−1·4	−1·7	−1·6

The year.—In 1908, as in 1907, there was less cloud than usual, the mean cloud amount of the whole year being 0·2 short of the normal value. The defect was not persistent through the year, for on the average of all the stations in Table B the proportion of cloud was appreciably greater than usual in the months of January, July and August.

TABLE 91.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Mean of India	+0·5	−0·4	−0·1	−0·2	−0·5	−0·5	+0·3	+0·4	−0·4	−0·5	−0·6	−0·7	−0·2

The above anomalies coincide with those of the rainfall in eleven of the twelve months and with those of the absolute humidity in ten months.

In point of geographical distribution the data of Table 82 show that Central India and Hyderabad had more than the usual quantity of cloud, and that the United Provinces, Rajputana, Eastern Bengal and Assam had less than the average, while over the rest of the country the state of the skies was on the whole fairly normal.

The statement below shows the departure of the mean amount of cloud in the Indian area annually during the period 1875-1908:—

TABLE 92

Year.	Amount of departure.
1875	0
1876	−0·2
1877	+0·3
1878	+0·1
1879	−0·1
1880	−0·1
1881	−0·1
1882	0
1883	+0·1
1884	−·1
1885	+0·
1886	+0·2
1887	−0·1
1888	−0·2

Year.	Amount of departure.	Year.	Amount of departure.
1889	+0·1	1899	—0·3
1890	+0·2	1900	+0·2
1891	+0·1	1901	+0·1
1892	+0·1	1902	—0·1
1893	+0·5	1903	—0·1
1894	+0·5	1904	—0·3
1895	+0·1	1905	—0·2
1896	—0·2	1906	0
1897	0	1907	—0·3
1898	—0·2	1908	—0·2

Snowfall.

(A).—The cold weather of 1907-08 and the succeeding hot weather.—

(1) Winter began considerably later than usual in Baluchistan and was on the whole mild. The precipitation exceeded the average in March and April, but the excess was neither large in amount nor common to the whole region.

(2) In Afghanistan, as represented by Kabul, the precipitation was in marked excess from December to February and again in April, but was below normal in March and May. Heavy snow is reported to have fallen in the northwest of Afghanistan during the fourth week of May. Similar weather appears to have prevailed in parts of the mountainous region of the North-West Frontier Province.

(3) In the valley of Kashmir precipitation was below normal up to March. Snow fell heavily in April and lightly in May. In Ladak the weather was of the usual character, while in Gilgit it was very disturbed in April and May.

(4) In the Punjab Himalayas weather was much drier than usual from December to March; April, on the other hand, was unusually disturbed in some parts, but notwithstanding the excessive snowfall which occurred, the accumulations in the beginning of May were on the whole below the average depth. Snow fell occasionally in May also and a severe snowstorm occurred on the 10th and 11th in Kulu, where snow is reported to have fallen as low as 8,000 feet. In the beginning of June there was a depth of about 7 or 8 feet of snow on the Rohtang and Hamta passes, the average being about 4 feet.

(5) In the Kumaon hills the snowfall was on the whole considerably lighter than usual. Although there was a heavy fall in the first fortnight of May the accumulations at the end of the month were certainly not much greater than the average.

(6) The reports of snowfall in the Assam Himalayas are very conflicting. It appears probable that the fall was very unevenly distributed, being heavy in some parts and light elsewhere. Apparently the snowline on the ranges round Sadiya was very low even at the end of May.

(7) The available information thus indicated :—

(*a*) that the snowfall was very light up to March, and was normal or in excess during the following two months;

(*b*) that snow fell to much lower levels than usual in May in some parts of the western Himalayas;

(*c*) that owing to the scantiness of the fall of the earlier months the depth of snow on the peaks and higher passes at the beginning of June was normal or below it in most districts;

(*d*) that at the end of May the snowline was very low in parts of the Assam Himalayas.

(B) The south-west monsoon period, June to September.—

1 In June there was no snowfall in Afghanistan and the hill districts of the North-West Frontier Province. In the Punjab Himalayas the snowfall was somewhat irregularly distributed, and was on the whole not above the average, while the accumulations were generally in marked defect. The fall of the month was below normal in Kashmir. There were two heavy falls in Garhwal and occasional falls in Almora. At the end of the month the accumulations of snow in Almora were on the whole slightly greater than usual. In the Assam Himalayas snow lay as low as 11,000 feet on the ranges near Sadiya.

2. During July no snow fell in Afghanistan and the hill districts of the North-West Frontier Province; in the latter area the weather was hot till the 13th. There were occasional snowstorms in Kashmir, but the total fall there was below the average. In the Punjab Himalayas there was probably no snowfall and the accumulations at the end of the month were markedly in defect. Occasional falls occurred in Almora; the total fall was on the whole not above the average.

3. In August no snow fell on the mountain region bordering upper India on the west. In Kashmir there were one or two falls on the higher mountains towards the close of the month: the total amount was not large, measuring only about half a foot on the Zoji-la. In Almora snowstorms occurred on several occasions during the month: the total fall measured 10 feet in depth on the Nuwe pass. On the whole the snowfall of the month was not greater than usual.

4. In September snowstorms occurred on the higher mountains in Kashmir on several occasions. The total fall amounted to about 3 feet on the ranges near Dras. Snow fell on five days on the hills near Kilba down to a level of about 10,000 feet. All the well-known passes were open at the end of the month. There were frequent falls of snow in Almora. The aggregate fall measured about 9 feet in depth on the Nuwe pass, 6¾ feet in Byans, 3 feet in Malla Johar, 2½ feet on the Binkaru pass, and about 1 foot in Malla Danpur. On the peaks round the Pindari Glacier there was no old snow below 16,000 feet. At the end of the month there was an accumulation of about 22 feet on the Nuwe pass as compared with 20 feet, the normal for the period.

(C).—The period October to December.—

In October slight falls occurred on the higher peaks of the Sufed Koh on the 1st and the 15th. In Kashmir there were occasional snowstorms down to very low levels: at Sonemarg a total of about 1 foot of snow was measured on the 1st and 2nd. At the end of the month the accumulated snow was about 2 feet in depth on the Zoji-la and a few inches on the Hungsathu. There were a few light falls of snow in the Punjab Himalayas. The lowest level reached in the Simla hills was about 9,300 feet. All the well-known passes near Kilba remained open. Snow fell on three days in Garhwal but the falls were not heavy and were confined to the higher peaks in the north. In Almora snowstorms were of occasional occurrence. The total fall amounted to about 6 feet on the Nuwe pass, 4½ feet in Byans, 3

feet in Chaudas and 7 inches in Malla Danpur. The snowline came down to the foot of the hills and a good deal of fresh snow lay as low as 11,000 feet at the close of the month. The depths of accumulated snow on the Nuwe and Binkaru passes were 24 and 13 feet, 3 and 2 feet more than the respective normal amounts.

On the hills near Kermanshah, in west Persia, the first snowfall of the winter season occurred on the 15th November, which is about the normal date. Slight snow fell on the highest points of the Sufed Koh on the 12th and 25th; some snow was also reported to have fallen in the Afghan and Kafiristan mountains. A few snowstorms occurred in the mountains of Kashmir towards the end of the month and the Deosai pass remained closed; the total quantity of snow received measured about 2 feet on the Zoji-la and the Hungsathu. In Ladak there was general snowfall on the 27th and 28th; the fall on these dates measured 5 inches in depth of snow at Leh. In the Punjab Himalayas light snow fell on the hills near Kilba on the 4th and moderately heavy snow on the 25th and 27th. The lowest level reached was about 10,000 feet on the 4th and about 6,000 feet on the 27th. At Kalabagh on the Chor range a total of 18 inches was measured on the 25th and 28th. On the higher mountains in Garhwal snowstorms occurred on the 11th and again from the 25th to the 28th; of these the storm of the 28th was severe and attended with heavy snowfall. There were occasional falls in Almora. The total quantity received during the month amounted to 15 feet on the Nuwe pass, 7 feet in Malla Johar, 5½ feet in Malla Byans, 3¾ feet on the Binkaru pass and 1½ feet in Malla Danpur. At the end of the month the accumulated snow measured about 27 feet in depth on the Nuwe pass, 15 feet on the Binkaru pass, 9 feet on the Untadhura and 4 feet on the Ralamdhura and the Lipulekh. The accumulations were about normal in amount except in the case of the Nuwe pass where they were greater than usual. At Gangtok in Sikkim there were the usual occasional slight falls of snow at elevations over 10,000 feet.

During December heavy snow fell in southern Russia, the Caucasus and the mountains along the northern frontier of Persia. There were several snowstorms in the Afghan mountains. The aggregate fall was considerably above the normal at Kabul. On the mountain ranges of Hazara the snowfall commenced earlier than usual, and was apparently heavy. In Kashmir the snowfall, although somewhat irregularly distributed, was much in excess of the normal. The first fall of the season occurred in the valley before the normal date. On the ranges near Kilba snow fell on three occasions. The snowline descended to an unusually low level on the 25th. In Garhwal there were altogether five falls and the lowest level reached was 5,000 feet. In Almora the accumulations were not quite as deep as usual at the end of the month, and the snowline was at about 13,000 feet.

Rainfall.

The rainfall data of India are now issued annually in a separate volume entitled "Rainfall of India." The eighteenth volume, that of 1908, contains the whole rainfall data of 2,709 stations which are there classified under their respective administrative divisions according to the following scheme:—

Provinces.	Number of stations.
Burma	188
Eastern Bengal and Assam	234
Bengal	317
United Provinces of Agra and Oudh	287
Punjab	189
North-West Frontier Province	35
Bombay	289
Madras (including Pudukkottai, Travancore and Cochin)	493
Coorg	10
Central Provinces	171
Mysore	77
Baluchistan	61
Kashmir	28
Rajputana	160
Central India	118
Hyderabad (Deccan)	22
Total ...	2,709

The information includes monthly statements of—

(*a*) the actual rainfall, day by day, of all the rainfall stations;

(*b*) the total rainfall of the month;

(*c*) the number of rainy days during the month;

(*d*) the average or normal rainfall of the month of all stations for which rainfall data of at least five years are available;

(*e*) the average or normal number of rainy days of the month for all stations for which rainfall data of five years or upwards are available;

Symons' rain-gauges are now used at all rain-gauge stations, with the exception of those in Mysore. The time of measuring rainfall is 8 hrs. throughout India, and the amounts registered give the rainfall of the previous 24 hours, and hence generally of the previous civil day.

The three tables (Tables 93 to 95) give summaries of the rainfall data of the year. The first and second tables give average rainfall data based on the returns of about 2,000 raingauge stations for the 14 chief political divisions and the 34 sub-divisions respectively, while the third table (Table 95) contains data of the number of rainy days for the 34 sub-divisions for the four seasons into which the year has been divided.

TABLE 93.—*Average, over the 14 chief political divisions, of the actual and normal rainfall for the four seasons of the year 1908, and for the whole year.*

Division.	JANUARY AND FEBRUARY.				MARCH TO MAY.				JUNE TO SEPTEMBER.				OCTOBER TO DECEMBER.				WHOLE YEAR.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	%	"	"	"	%	"	"	"	%	"	"	"	%	"	"	"	%
Burma	0·14	0·26	−0·12	−46	8·15	10·65	−2·50	−23	60·45	60·38	+0·07	0	13·39	7·30	+6·09	+83	82·13	78·59	+3·54	+5
Eastern Bengal and Assam	1·56	1·77	−0·21	−12	16·91	21·26	−4·35	−20	55·79	63·40	−7·61	−12	3·57	6·08	−2·51	−41	77·93	92·51	−14·68	−16
Bengal	1·79	1·23	+0·56	+46	2·91	5·34	−2·43	−46	38·67	43·76	−5·09	−12	1·08	4·20	−3·12	−74	44·45	54·53	−10·08	−18
United Provinces	1·53	1·51	+0·02	+1	0·69	1·21	−0·61	−50	30·97	34·99	−4·02	−11	0·27	1·81	−1·54	−85	33·37	39·53	−6·15	−16
Punjab	1·94	2·12	−0·18	−8	1·84	1·71	+0·13	+8	25·34	16·20	+9·14	+56	0·26	0·80	−0·54	−67	29·38	20·83	+8·55	+41
North-West Frontier Province	4·31	2·72	+1·59	+58	6·45	3·79	+2·66	+70	15·51	8·61	+6·90	+80	1·34	1·24	+0·10	+8	27·61	16·36	+11·25	+69
Sind	0·77	0·53	+0·24	+45	0·22	0·39	−0·17	−44	11·19	5·49	+5·70	+104	0	0·22	−0·22	−100	12·18	6·63	+5·55	+84
Rajputana	0·63	0·56	+0·07	+13	0·36	0·65	−0·29	−45	32·91	19·68	+13·23	+67	0·06	0·68	−0·62	−91	33·96	21·57	+12·39	+57
Bombay	0·07	0·18	−0·11	−61	0·68	1·58	−0·90	−57	42·98	42·38	+0·60	+1	0·67	3·68	−3·01	−82	44·40	47·82	−3·42	−7
Central India	0·85	0·87	−0·02	−2	0·40	0·54	−0·14	−26	37·20	35·39	+1·81	+5	0·25	1·58	−1·33	−84	38·70	38·38	+0·32	+1
Central Provinces	0·81	0·75	+0·09	+12	0·98	1·18	−0·20	−17	42·60	36·92	+5·68	+15	0·46	2·56	−2·10	−82	44·83	41·41	+3·42	+8
Hyderabad	0·41	0·25	+0·19	+76	0·48	1·86	−1·38	−74	32·54	26·26	+6·28	+24	0·10	4·12	−4·02	−98	33·56	32·49	+1·07	+3
Mysore	0·67	0·11	+0·56	+509	5·73	5·19	+0·54	+10	18·34	20·66	−2·32	−11	2·74	8·65	−5·91	−68	27·48	34·61	−7·13	−21
Madras	1·64	0·86	+0·78	+91	3·48	4·48	−1·00	−22	25·73	24·23	+1·50	+6	9·21	14·54	−5·33	−37	40·06	44·11	−4·05	−9
Mean of India when the size of the above areas is taken into account.	1·05	0·90	+0·15	+17	3·37	4·50	−1·13	−25	37·44	35·35	+2·09	+6	2·99	4·44	−1·45	−33	44·85	45·19	−0·34	−1

TABLE 94.—*Average, over the 34 sub-divisions, of the actual and normal rainfall for the four seasons of the year 1908, and for the whole year.*

Sub-division.	JANUARY AND FEBRUARY.				MARCH TO MAY.				JUNE TO SEPTEMBER.				OCTOBER TO DECEMBER.				WHOLE YEAR.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	%	"	"	"	%	"	"	"	%	"	"	"	%	"	"	"	%
1. Hay Islands	2·09	1·15	+0·94	+82	15·74	15·45	+0·29	+2	73·58	60·15	+13·43	+22	11·05	19·62	−8·57	−44	102·46	96·37	+6·09	+6
2. Lower Burma	0·05	0·24	−0·19	−79	11·28	14·81	−3·53	−24	100·76	99·06	+1·70	+2	15·46	8·75	+6·71	+77	127·55	123·86	+4·69	+4
3. Upper Burma	0·20	0·26	−0·06	−23	5·61	7·24	−1·63	−23	26·65	27·95	−1·30	−5	11·62	6·06	+5·56	+92	44·08	41·51	+2·57	+6
4. Assam	1·64	2·23	−0·59	−26	20·99	27·06	−6·07	−22	62·07	64·06	−1·99	—	4·31	8·20	−1·89	−30	89·01	99·55	−10·54	−11
5. Eastern Bengal	1·48	1·29	+0·19	+15	12·59	15·27	−2·68	−18	49·43	62·71	−13·28	−21	2·61	5·94	−3·13	−53	66·31	85·21	−18·90	−22
6. Bengal	1·41	1·26	+0·13	+10	4·41	7·60	−3·19	−42	45·92	44·64	+1·28	+3	0·95	4·54	−3·59	−79	53·69	58·06	−5·37	−9
7. Orissa	1·44	1·00	+0·44	+44	2·85	5·77	−2·92	−51	51·34	44·02	+7·32	+17	1·91	6·94	−5·03	−72	57·54	57·73	−0·19	0
18. Chota Nagpur	2·22	1·27	+0·95	+75	2·08	3·91	−1·83	−47	42·34	44·92	−2·58	−6	1·05	3·30	−2·25	−68	47·69	53·40	−5·71	−11

TABLE 94.—*Average, over the 34 sub-divisions of the actual and normal rainfall for the four seasons of the year 1908, and for the whole year*—concld.

Sub-division.	JANUARY AND FEBRUARY.				MARCH TO MAY.				JUNE TO SEPTEMBER.				OCTOBER TO DECEMBER.				WHOLE YEAR.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	%	"	"	"	%	"	"	"	%	"	"	"	%	"	"	"	%
9. Bihar	2·19	1·25	+0·94	+75	1·64	3·12	−1·48	−47	22·95	42·13	−19·18	−46	0·85	2·88	−2·03	−70	27·63	49·38	−21·75	−44
10. United Provinces, East	1·23	1·23	0	0	0·45	1·12	−0·66	−59	27·77	35·44	−7·67	−22	0·40	2·31	−1·91	−83	29·86	40·10	−10·24	−26
11. United Provinces, West	1·39	1·33	+0·06	+3	0·76	1·31	−0·55	−42	34·60	34·46	+0·14	0	0·13	1·25	−1·12	−90	37·38	38·85	−1·47	−4
12. Punjab, East and North	2·16	2·39	−0·23	−10	1·64	1·62	+0·02	+1	28·08	18·84	+9·24	+49	0·33	0·92	−0·59	−64	32·41	23·97	+8·44	+35
13. Punjab, Southwest	1·11	1·09	+0·02	+2	1·01	1·29	+0·62	+48	14·83	6·12	+8·71	+142	0·03	0·39	−0·36	−92	17·38	8·89	+8·99	+101
14. Kashmir	3·22	6·40	−3·18	−29	8·45	6·88	+1·57	+23	12·91	11·82	+1·09	+9	3·53	2·52	+1·01	+40	28·31	27·62	+1·19	+4
15 North-West Frontier Province	4·21	2·72	+1·49	+56	6·45	3·79	+2·66	+70	15·51	8·61	+6·90	+80	1·34	1·24	+0·10	+8	27·61	16·36	+11·25	+69
16. Baluchistan	1·34	2·83	−1·49	−53	2·00	1·80	+0·20	+11	2·89	2·10	+0·79	+38	0·67	1·52	−0·85	−56	16·90	9·25	−1·35	−16
17. Sind	0·77	0·53	+0·24	+45	0·22	0·39	−0·17	−44	11·19	5·49	+5·70	+104	0	0·22	−0·23	−100	12·18	6·63	+5·55	+84
18. Rajputana, West	0·39	0·29	+0·10	+34	0·28	0·44	−0·16	−36	25·60	10·67	+14·93	+140	0·05	0·41	−0·36	−88	26·33	11·81	+14·51	+123
19. Rajputana, East	0·73	0·65	+0·08	+12	0·39	0·74	−0·35	−47	35·57	22·99	+12·58	+55	0·06	0·78	−0·72	−92	36·75	25·16	+11·59	+46
20. Gujarat	0·17	0·15	+0·02	+13	0	0·27	−0·27	−100	34·70	33·47	+1·32	+4	0·04	1·17	−1·13	−97	35·00	35·06	−0·06	0
21. Central India, West	0·59	0·53	+0·06	+11	0·36	0·42	−0·06	−14	31·65	32·47	−0·82	−3	0·04	1·20	−1·16	−97	32·64	34·62	−1·98	−6
22. Central India, East	1·36	1·50	−0·14	−9	0·44	0·79	−0·35	−44	49·51	41·04	+7·47	+18	0·77	2·32	−1·55	−67	51·08	45·65	+5·43	+12
23. Berar	0·11	0·52	−0·41	−79	1·31	0·98	+0·33	+34	33·56	27·16	+6·40	+24	0·09	2·53	−2·49	−97	35·07	31·24	+3·83	+12
24. Central Provinces, West	0·83	0·93	−0·10	−11	1·01	0·97	+0·04	+4	43·39	41·31	+2·68	+6	0·76	2·44	−1·68	−69	46·59	45·65	+0·94	+2
25. Central Provinces, East	2·21	0·85	+1·36	+160	0·29	1·24	−1·55	−84	56·62	47·47	+9·35	+20	0·61	2·72	−2·11	−78	59·93	52·88	+7·05	+13
26. Konkan	0·07	0·18	−0·11	−61	0·70	1·98	−1·28	−65	107·19	105·55	+1·64	+2	1·17	5·43	−4·26	−78	109·13	113·14	−4·01	−4
27. Bombay, Deccan	0·01	0·19	−0·18	−95	1·12	2·31	−1·19	−52	24·77	25·02	−0·25	−1	0·88	4·65	−3 77	−81	26·78	32·17	−5·39	−17
28. Hyderabad, North	0·11	0·24	−0·13	−54	0·57	1·50	−0·93	−62	32·17	30·16	+2·01	+7	0·02	3·91	−3·89	−99	32·87	35·81	−2·94	−8
29. Hyderabad, South	0·72	0·26	+0·46	+177	0·39	2·15	−1·76	−82	32 36	23·01	+9·35	+43	0·18	4·30	−4·12	−96	34·15	29·72	+4·43	+15
30. Mysore	0·67	0·11	+0·56	+509	5·73	5·19	+0·54	+10	18·34	20·66	−2·32	−11	2·74	8·65	−5·91	−68	27·48	34·61	−7·13	−21
31. Malabar	0·54	0·40	+0·14	+35	7·68	10·55	−2·87	−27	116·04	102·74	+13·30	+13	6·93	14·99	−8·01	−53	131·24	128·68	+2·56	+2
32. Madras, Southeast	2·00	1·21	+0·79	+65	4·00	4·55	−0·55	−12	10·91	11·67	−0·96	−8	18·73	18·03	−4·30	−24	30·64	35·66	−5·02	−14
33. Madras, Deccan	0·87	0·23	+0·64	+278	2·08	2·51	−0·43	−17	14·79	14·67	+0 12	+1	3·59	7·38	−4·79	−65	20·33	24·79	−4·46	−18
34. Madras Coast, North	2·00	0·69	+1·31	+190	2·01	3·42	−1·41	−41	26·76	24·34	+2·42	+10	6·58	12·00	−6·42	−54	36·35	40·45	−4·10	−10

TABLE 95.—*Average, over the 34 sub-divisions, of the actual and normal number of rainy days for the four seasons of the year 1908, and for the whole year.*

SUB-DIVISION.	JANUARY AND FEBRUARY.			MARCH TO MAY.			JUNE TO SEPTEMBER.			OCTOBER TO DECEMBER.			WHOLE YEAR.		
	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.
1. Bay Islands	3·0	2·4	+0·6	19·0	20·4	−1·4	78·0	82·0	−4·0	20·0	29·8	−9·8	120·0	134·6	−14·6
2. Lower Burma	0·1	0·4	−0·3	14·0	16·5	−2·5	94·0	90·1	+3·9	19·5	12·3	+7·2	127·6	119·3	+8·3

TABLE 95.—*Average, over the 34 sub-divisions, of the actual and normal number of rainy days for the four seasons of the year 1908, and for the whole year—concld.*

Sub-division.	JANUARY AND FEBRUARY.			MARCH TO MAY.			JUNE TO SEPTEMBER.			OCTOBER TO DECEMBER.			WHOLE YEAR.		
	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.
3. Upper Burma	0·6	0·7	—0·1	9·8	11·0	—1·2	39·3	40·0	—0·7	15·0	9·1	+5·9	64·7	60·8	+3·9
4. Assam	5·7	5·2	+0·5	27·4	31·9	—4·5	66·0	67·7	—1·7	6·2	8·5	—2·3	105·3	113·3	—8·0
5. Eastern Bengal	3·2	2·3	+0·9	14·6	17·6	—3·0	55·8	62·7	—6·9	3 7	6 1	—2·4	77·3	88·7	—11·4
6. Bengal	2·7	2·4	+0·3	7·8	11·1	—3·3	56·2	55·4	+0·8	1·6	5·5	—3 9	68·3	74·4	—6·1
7. Orissa	2·5	1·8	+0·7	5·6	8·8	—3·2	62·0	52·6	+9·4	2·7	7·8	—5 1	72 8	71·0	+1·8
8. Chota Nagpur	3·8	2·7	+1·1	4·6	7·1	—2·5	56·5	53·9	+2·6	1·2	4·6	—3 4	66·1	68·3	—2·2
9. Bihar	4·3	3·7	+1·6	3·4	4·9	—1·5	30·5	46·4	—15·9	1·0	3·4	—2·4	39·2	57·4	—18·2
10. United Provinces, East	3·0	2·7	+0·3	1·2	2·4	—1·2	34·5	38·4	—3·9	0·7	2·5	—1·8	39 4	46 0	—6·6
11. United Provinces, West	2·9	3 6	—0·7	1·6	3·1	—1·5	36·4	34·9	+1·5	0·4	1·9	—1·5	41·3	43·5	—2·2
12. Punjab, East and North	3·0	4·5	—1·5	4·6	4·3	+0·3	29·0	20·2	+8·8	1·1	1·7	—0·6	37·7	30·7	+7·0
13. Punjab, Southwest	2·5	2·6	—0·1	4·3	3·1	+1·2	15·4	8·3	+7·1	0 2	0 8	—0·6	22·4	14 8	+7·6
14. Kashmir	3·7	10·0	—1·3	14·6	13·3	+1·3	20·9	16·9	+4·0	5·1	5·5	—0·4	43·3	45·7	+3·6
15. North-West Frontier Province	8·6	5·3	+3·3	10·6	7·6	+3·0	18·3	11·6	+6·7	3·2	2·3	+0 9	40·7	26·8	+13·9
16. Baluchistan	3·5	6·6	—3·1	5·4	4·8	+0·6	5·5	3·7	+1·8	1·8	3·5	—1·7	16·2	18 6	—2·4
17. Sind	1·1	1·5	—0·4	0·5	1·0	—0·5	9 3	6·2	+3·1	0	0 5	—0 5	10·9	9·2	+1·7
18. Rajputana, West	1·0	0·8	+0·2	0·8	1·1	—0 3	26·5	13·4	+13·1	0·2	0·8	—0 6	28·5	16·1	+12·4
19. Rajputana, East	1·2	1·6	—0·4	0·9	1·9	—1·0	38·6	27 8	+10·8	0·2	1·6	—1·4	40·9	32·9	+8·0
20. Gujarat	0·7	0·3	+0·4	0	0·6	—0·6	42·6	36·4	+6·2	0·1	1·6	—1·5	43·4	38 9	+4·5
21. Central India, West	1·1	1·2	—0·1	1·1	0·9	+0·2	42·6	39·2	+3·4	0·1	2·3	—2·2	44·9	43·6	+1·3
22. Central India, East	2·5	3·1	—0·6	1·4	1·9	—0·5	50·7	44·3	+6·4	1·3	3·2	—1·9	55·9	52·5	+3·4
23. Berar	0·1	1·1	—1·0	3·8	2·2	+1·6	45·2	38·1	+7·1	0·4	3·6	—3·2	49·5	45·0	+4·5
24. Central Provinces, West	1·6	1·8	—0·2	2·7	2·3	+0 4	53·3	47·1	+6 2	1·5	3·5	—2·0	59·1	54·7	+4·4
25. Central Provinces, East	2·7	1·6	+1·1	1·0	3 9	—2·9	62·9	51·7	+11·2	1 2	3·9	—2·7	67·8	61·1	+6·7
26. Konkan	0·2	0·3	—0·1	1·0	2·7	—1·7	36·4	35 9	+0·5	2·5	7·7	—5·2	90·1	96·6	—6·5
27. Bombay Deccan	0	0·4	—0·4	2·5	4·4	—1·9	39·1	38·3	+0·8	1 9	7·0	—5·1	43·5	50·1	—6·6
28. Hyderabad, North	0 4	0·5	—0·1	1·6	3·6	—2·0	42 3	42·3	0	0	5·9	—5·9	44·3	52·3	—8·0
29. Hyderabad, South	1·0	0 6	+0·4	1·4	4·3	—2·9	37·4	37·7	—0·3	0·7	7·1	—6·4	40·5	49·7	—9·2
30. Mysore	0·9	0·2	+0·7	8 6	8·6	0	30·5	31·5	—1·0	6·3	13·0	—6·7	46 3	53·3	—7·0
31. Malabar	1·0	0·4	+0·6	10·2	13·5	—3·3	83·9	86·9	—3·0	10·2	19·0	—8·8	105·3	119·8	—14·5
32. Madras, Southeast	3·1	1·7	+1·4	6·4	6·5	—0·1	17·0	18·2	—1·2	15·2	21·2	—6·0	41·7	47·6	—5·9
33. Madras, Deccan	0·5	0	+0·5	3·5	4·5	—1·0	28·1	24·6	+3·5	4·1	10·5	—6·4	36 2	39·6	—3·4
34. Madras Coast, North	2·5	0·8	+1·7	3·8	5·4	—1·6	39·6	35·5	+4·1	5·5	12·0	—6·5	51·4	53·7	—2·3

I.—The cold weather period.—On the whole this was a season of much less precipitation than any of its three predecessors. The winter rains began in northern India on the 9th of January, about a fortnight after the usual date, and were on the whole about normal in quantity. Their distribution in time and space was however by no means of the ordinary character. Thus the rainfall of January although plentiful throughout the greater part of the plains occurred chiefly during the period 9th to 15th, while that of February was scanty except in southern India, Bihar, Chota Nagpur and the east of the Central Provinces—areas beyond the influence of the few cold weather disturbances of the month.

(*a*) The precipitation of the period in northwest India was rather irregularly distributed, being in excess in the North-West Frontier Province, Sind, Rajputana and Gujarat, nearly normal in the Punjab and United Provinces and markedly in defect in Kashmir and Baluchistan.

TABLE 96.

Division.	Rainfall of period, January and February.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
United Provinces	1·53	1·51	+0·02	+1
Punjab	1·94	2·12	−0·18	−8
Kashmir	3·92	6·40	−2·48	−39
North-West Frontier Province	4·31	2·72	+1·59	+58
Baluchistan	1·34	2·83	−1·49	−53
Sind	0·77	0·53	+0·24	+45
Rajputana	0·63	0·56	+0·07	+13
Gujarat	0·17	0·15	+0·02	+13

It may be noted that the general mildness of the weather in this period, as shown by the data of the previous statement, was foreshadowed by the almost entire absence of unsettled weather in December.

(*b*) Over the region lying to the east of the United Provinces more than the average amount of rain fell: the excess however did not extend into Assam and Burma where the season's fall was well below the normal. Further south over the Bay Islands there was a large excess due solely to heavy rainfall in February, a circumstance prejudicial to the occurrence of abundant rain in northwest India.

TABLE 97.

Sub-division.	Rainfall of period, January and February.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Bay Island	2·09	1·15	+0·94	+82
Lower Burma	0·05	0·24	−0·19	−79
Upper Burma	0·20	0·26	−0·06	−23
Assam	1·64	2·23	−0·59	−26
Eastern Bengal	1·48	1·29	+0·19	+15
Bengal	1·79	1·23	+0·56	+46

(*c*) In the peninsula the rainfall was unusually heavy in Madras, Mysore and the south of Hyderabad and lighter than usual elsewhere. In the Central Provinces and Central India the distribution was rather irregular, but over a large part there occurred a defect which was most marked in Berar (79 per cent.)

TABLE 98.

Sub-division.	Rainfall of period, January and February.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Central India, West	0·59	0·53	+0·06	+11
Central India, East	1·36	1·50	−0·14	−9
Bera	0·11	0·52	−0·41	−79
Central Provinces, West	0·83	0·93	−0·10	−11
Central Provinces, East	2·21	0·85	+1·36	+160
Konkan	0·07	0·18	−0·11	−61
Bombay, Deccan	0·02	0·19	−0·18	−95
Hyderabad, North	0·11	0·24	−0·13	−54
Hyderabad, South	0·72	0·26	+0·46	+177
Mysore	0·67	0·11	+0·56	+509
Malabar	0·54	0·40	+0·14	+35
Madras, Southeast	2·00	1·21	+0·79	+65
Madras, Deccan	0·87	0·23	+0·64	+278
Madras Coast, North	2·00	0·69	+1·31	+190

(*d*) The precipitation was much in excess of the normal at Kabul, Tehran and Ispahan, and more or less in defect over the rest of Persia. These features of the rainfall distribution would suggest that the course pursued by the disturbances of the period was on the whole much further north than usual.

TABLE 99.

Station.	Rainfall of period, January and February.			
	Actual.	Normal	Departure from normal.	Percentage departure from normal.
	"	"	"	
Aden . . .	0·07	0·61	—0·54	—89
Perim . . .	2·08	0·60	+1·48	+247
Baghdad . . .	2·02	3·55	—1·53	—43
Ispahan . . .	2·43	0·43	+2·00	+465
Tehran . . .	2·88	2·11	+0·77	+36
Bushire . . .	4·40	5·47	—1·07	—20
Meshed . . .	1·21	1·44	—0·23	—16
Jask . . .	0·23	1·84	—1·61	—88
Chaman . . .	1·80	3·05	—1·25	—41
Quetta . . .	1·60	4·24	—2·64	—62
Kabul . . .	11·08	2·22	+8·86	+399
Gilgit . . .	0·46	0·37	+0·09	+24
Srinagar . . .	4·13	6·29	—2·16	—34
Kashgar . . .	0·18	0·39	—0·21	—54
Leh . . .	0·56	0·66	—0·10	—15

(*e*) In the sub-equatorial region as represented by the Seychelles and Zanzibar the rainfall was very scanty in January and excessive in February. At Mauritius on the other hand it was throughout above normal.

TABLE 100.

Station.	Departure from normal of rainfall.		
	January.	February.	Period, January and February.
	"	"	"
Seychelles	—14·63	+6·95	—7·68
Zanzibar	—2·24	—2·64	—5·38
Mauritius	+3·06	+1·52	+4·58

II.—**The hot weather period.**—(*a*) This period was characterised by a drought, almost as extensive as and more prolonged than that of the corresponding period of 1906. In northern India all the three months brought less than an average fall except in upper India, where a heavy burst of rain occurred in April between the 4th and 13th from a storm of the cold weather type and more than compensated for the dryness of the rest of the period. The peninsula including the Central Provinces was affected almost as generally by the dry weather as northern India; for the only parts where the aggregate precipitation of the period equalled or exceeded the average were Berar, the Central Provinces West and Mysore. The total amount as compared with the normal fall for the period was almost insignificant in the Central Provinces East and Hyderabad South which constituted the region of greatest percentage deficiency of rainfall.

In Burma also the fall was more or less deficient throughout the period.

TABLE 101.

Division.	Rainfall of period, March to May.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma . . .	8·15	10·65	—2·50	—23
Eastern Bengal and Assam .	16·91	21·26	—4·35	—20
Bengal . . .	2·91	5·34	—2·43	—46
United Provinces . .	0·60	1·21	—0·61	—50
Punjab . . .	1·84	1·71	+0·13	+8
North-West Frontier Province	6·45	3·79	+2·66	+70
Sind . . .	0·22	0·39	—0·17	—44
Rajputana . . .	0·36	0·65	—0·29	—45
Bombay . . .	0·63	1·53	—0·90	—57
Central India . .	0·40	0·54	—0·14	—26
Central Provinces . .	0·98	1·18	—0·20	—17
Hyderabad . . .	0·48	1·86	—1·38	—74
Mysore . . .	5·73	5·19	+0·54	+10
Madras . . .	3·48	4·48	—1·00	—22
Mean of India when the size of the above areas is taken into account.	3·37	4·50	—1·13	—25

(*b*) In the highlands of Afghanistan and Persia as in northwest India March was drier, and April rainier than usual, but in May the excess in Persia did not extend eastwards.

TABLE 102.

Station.	Departure from normal.			
	March.	April.	May.	Percentage departure of period, March to May.
	"	"	"	
Aden	—0·87	—0·38	—0·19	—100
Perim	—0·27	—0·02	—0·37	—100
Baghdad	—0·95	—0·71	—0·13	—64
Ispahan	+0·45	+0·75	+0·12	+89
Tehran	—0·93	+0·23	+0·03	—16
Bushire	—0·56	—0·42	+0·07	—59
Meshed	—1·70	+0·56	+1·26	+2
Jask	—1·09	—0·03	0	—95
Chaman	+0·96	+0·67	—0·05	+88
Quetta	—0·62	—0·14	—0·38	—34
Kabul	—3·87	+3·07	—0·42	—3
Gilgit	—0·57	+0·45	+1·74	+70
Srinagar	—2·02	+7·92	+0·74	+61
Kashgar	+0·50	+0·58	—0·88	+17
Leh	—0·17	—0·07	—0·16	—67

(*c*) In the subequatorial belt as a whole rainfall varied from the normal in the same direction as in Persia. In the south of the Indian Ocean as represented by Mauritius the rainfall was well above normal in the first two months and in defect in May.

TABLE 103.

Station.	Departure from normal of rainfall.			
	March.	April.	May	Period, March to May.
	"	"	"	"
Seychelles	—3·34	+3·53	+0·04	+0·23
Zanzibar	—1·40	—3·12	+3·56	—0·96
Mauritius	+4·52	+2·94	—2·24	+5·22

III.—**The southwest monsoon period.**—Like the preceding two years the initial advance of the monsoon on the coasts of India occurred somewhat after the usual date, but its progress inland although less rapid than in 1906 was not retarded to the same extent as in 1907. Both currents reached India almost simultaneously near the middle of June; but failed to penetrate into the interior in the normal manner, so that it was not until the 7th of July that the monsoon set in with its usual strength and steadiness over northwestern India and Central India. From the second week of July to the 4th of September the westerly branch was unusually vigorous and gave abundant rain over the region under its sway, but particularly to northwest India. Thereafter it fell off rapidly and during the rest of the month its activity was displayed mainly in the peninsula, where in the last week in conjunction with a storm from the Bay it gave downpours of rain which produced disastrous floods in Hyderabad.

The Bay current on the other hand was not so active as usual and was never properly established in Bihar and the east of the United Provinces.

The final termination of the rains in upper India occurred on the 10th of September, within a few days of the normal date.

(*a*) The total precipitation given by the Bay current over the region served by it almost exclusively was within 5 per cent of the normal amount. Its local distribution was however marked by much irregularity, there being an excess of about 20 per cent. in the Bay Islands and Orissa, and a defect of over 20 per cent in Eastern Bengal, Bihar and the east of the United Provinces.

TABLE 104.

Sub-division.	Rainfall of period, June to September.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Bay Islands	78·58	60·15	+18·43	+22
Lower Burma	100·76	99·06	+1·70	+2
Upper Burma	26·65	27·95	—1·30	—5
Assam	62·07	64·06	—1·99	—3
Eastern Bengal	49·43	62·71	—13·28	—21
Bengal	45·92	44·64	+1·28	+3
Orissa	51·34	44·02	+7·32	+17
Chota Nagpur	42·36	44·92	—2·56	—6
Bihar	22·95	42·13	—19·18	—46
United Provinces, East	27·77	35·44	—7·67	—22
Madras Coast, North	26·76	24·34	+2·42	+10

The defect in Eastern Bengal, Bihar and the east of the United Provinces was common to nearly the whole of the period, though on the whole most pronounced in the terminal months.

TABLE 105.

Sub-division.	PERCENTAGE DEPARTURE FROM NORMAL.			
	June.	July.	August.	September.
Eastern Bengal . . .	—19	—6	—51	—10
Bihar	—58	—45	—47	—34
United Provinces, East . .	—61	—15	+10	—57

(*b*) In the region dominated by the Arabian Sea current on the other hand the rainfall of the period was in general unusually abundant and very favourably distributed; the only divisions which obtained less than their normal share were Central India West, the Bombay Deccan, Mysore and Madras Southeast; but nowhere did the defect exceed 11 per cent. in amount. The excess was well marked in northwest India, the east of Central India, the greater part of the Central Provinces, Hyderabad South and Malabar; and, it was absolutely greatest in Rajputana West, which obtained nearly 15″ or 140 per cent more than its normal supply.

TABLE 106.

Sub-division.	RAINFALL OF PERIOD, JUNE TO SEPTEMBER.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	″	″	″	
United Provinces, West . .	34·60	34·46	+0 14	0
Punjab, East and North . .	28·08	18·84	+9·24	+49
Punjab, Southwest . . .	14·83	6·12	+8·71	+142
North-West Frontier Province .	15·51	8·61	+6·90	+80
Sind	11·19	5·49	+5·70	+104
Rajputana, West . . .	25·60	10·67	+14·93	+140
Rajputana, East . . .	35·57	22·99	+12·58	+55
Gujarat	34·79	33·47	+1·32	+4
Central India, West . . .	31·65	32·47	—0·82	—3
Central India, East . . .	48·51	41·04	+7·47	+18
Berar	33·56	27·16	+6·40	+24
Central Provinces, West . .	43·99	41·31	+2·68	+6
Central Provinces, East . .	56·82	47·47	+9·35	+20
Konkan	107·19	105·55	+1·64	+2
Bombay Deccan	24·77	25·02	—0·25	—1
Hyderabad, North . . .	32·17	30·16	+2·01	+7
Hyderabad, South . . .	32·86	23·01	+9·85	+43
Mysore	18·34	20·66	—2·32	—11
Malabar	116·04	102·74	+13·30	+13
Madras, Southeast . . .	10·91	11·87	—0·96	—8
Madras, Deccan . . .	14·79	14·67	+0·12	+1

The most conspicuous feature of the rains of the monsoon of 1908 was its abnormal determination to northwest India which therefore obtained much larger amounts of rainfall than any previously on record. The accompanying table gives all the cases of excess since 1875.

Excess of monsoon rainfall of northwest India in inches.

TABLE 107.

1875	1876	1878	1881	1882	1884	1887	1890	1892	1893	1894	1900	1908
″	″	″	″	″	″	″	″	″	″	″	″	″
+6·74	+1·41	+3·53	+1·07	+2·13	+2·89	+0·72	+0·05	+6·91	+3·01	+4·13	+1·9	+8·75

There was a fair excess of rainfall also in Kashmir and Baluchistan—a further illustration of the unusual extension of the monsoon currents in 1908. In this area the rainfall was exceptionally heavy for the time of year at Leh, an indication that the currents were of much greater vertical depth than usual.

TABLE 108.

Area.	Rainfall of period, June to September.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Kashmir	12·91	11·82	+1·09	+9
Leh	3·84	1·31	+2·53	+193
Baluchistan	2·89	2·10	+0·79	+38

(*c*) In regions further to the west and north the weather was even drier than usual. It is significant that the abnormal activity of the Arabian Sea current was quite as conspicuous at Perim and Aden as in India.

TABLE 109.

Station.	Rainfall of period, June to September.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Aden	0·87	0·31	+0·56	+181
Perim	1·95	0·47	+1·48	+315
Baghdad	0	0·09	—0·09	—100
Ispahan	0	0·06	—0·06	—100
Tehran	0·03	0·64	—0·61	—95
Bushire	0	0	0	0
Meshed	0·95	0·27	+0·68	+252
Jask	0	0·13	—0·13	—100
Kabul	0·48	0·62	—0·14	—23
Kashgar	1·20	2·13	—0·93	—44

(*d*) In subequatorial regions the rainfall although rather irregularly distributed was on the whole fairly normal in amount. At Mauritius the excess which had characterized the cold and hot weather seasons was continued also into this period.

TABLE 110.

Station.	Rainfall of period, June to September.			
	Actual.	Normal.	Departure from normal	Percentage departure from normal.
	"	"	"	
Seychelles	13·82	15·93	—2·11	—13
Zanzibar	10·54	7·77	+2·77	+36
Mauritius	10·85	8·03	+2·82	+35

IV.—The retreating southwest monsoon period.

After its retreat from upper India in the second week of September the monsoon became very weak and except for a short period towards the beginning of October gave scarcely any rain over the Gangetic plain and Central India. The final cessation of the rains thus occurred several weeks earlier than usual over a large part of northern and central India: the crops accordingly suffered though not to the same extent as in 1907. The statement below will afford the means of comparison of the monsoons of 1907 and 1908 in respect of their early withdrawal.

TABLE 111.

Division.	Actual date of termination of rains in		Normal date of termination of rains.
	1908.	1907.	
United Provinces, West.	9th September	29th August	26th September
" " East.	" "	7th September	10th October
Bihar	3rd October	26th "	15th "
Chota Nagpur	" "	25th "	15th "
Bengal	5th "	26th "	31st "
Central India	11th September	22nd "	30th September
Central Provinces	1st October	23rd "	15th October

The rainfall due to the retreating monsoon current was very scanty and below the normal throughout the period except in Burma which obtained nearly double its normal quantity; this was chiefly due to a cyclonic storm that struck the coast at Akyab at about 23 hrs. on the 11th November. The defect, while large in amount over the whole of the peninsula, northeast and central India, was serious in Hyderabad and Berar, which hardly received any rain during the period, whereas in normal years 2 to 5 inches are recorded.

TABLE 112.

Division.	Rainfall of period, October to December.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	13·39	7·30	+6·09	+83
Eastern Bengal and Assam	3·57	6·08	−2·51	−41
Bengal	1·08	4·20	−3·12	−74
United Provinces	0·27	1·81	−1·54	−85
Bombay	0·67	3·68	−3·01	−82
Central India	0·25	1·58	−1·33	−84
Berar	0·09	2·58	−2·49	−97
Central Provinces, West	0·76	2·44	−1·68	−69
" " East	0·61	2·72	−2·11	−78
Hyderabad	0·10	4·12	−4·02	−98
Mysore	2·74	8·65	−5·91	−68
Madras	9·21	14·54	−5·33	−37

The period was unusually dry also in north-west India, excepting Kashmir and the North-West Frontier Province where more than the average amount of precipitation was caused by feeble depressions of the cold weather type in October and December.

TABLE 113.

Division.	Rainfall of period October to December.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Punjab	0·26	0·80	−0·54	−67
Kashmir	3·53	2·52	+1·01	+40
North-West Frontier Province	1·34	1·24	+0·10	+8
Baluchistan	0·67	1·52	−0·85	−56
Sind	0	0·22	−0·22	−100
Rajputana	0·06	0·68	−0·62	−91

The dryness was almost as marked in Persia and Arabia as in India and in a modified degree extended southwards to Zanzibar and the Seychelles. In Afghanistan on the other hand the conditions were much more disturbed than usual in December.

At Mauritius the tendency to excessive precipitation shown in the first three seasons was traceable also in the records of the period under review.

TABLE 114.

Station.	Rainfall of period, October to December.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Seychelles	21·44	31·18	−9·74	−31
Zanzibar	14·48	17·03	−2·55	−15
Mauritius	9·04	8·29	+0·75	+9
Aden	0·08	0·61	−0·53	−87
Perim	0·06	0·19	−0·13	−68
Baghdad	0·48	2·60	−2·12	−82
Ispahan	1·03	1·67	−0·64	−38
Bushire	1·80	5·11	−3·31	−65
Meshed	0·34	1·63	−1·29	−79
Jask	0·46	1·31	−0·85	−65
Kabul	1·84	1·33	+0·51	+38

The year.—On the mean of the whole of India, excluding hill stations, 1908 was a year of average rainfall. but its character was by no means uniform. Thus of the four seasons the cold weather and the southwest monsoon were on the whole more rainy than usual, while the other two periods were markedly dry. In respect of the monsoon rainfall the character was opposite to that prevailing in the previous seven years all of which were in defect.

TABLE 115.

Period.	Rainfall of India (when the sizes of areas are taken into account) in 1908.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Cold weather	1·05	0·90	+0·15	+17
Hot "	3·37	4·50	−1·13	−25
South-west monsoon	37·44	35·35	+2·09	+6
Retreating south-west monsoon	2·99	4·44	−1·45	−33
Whole year	44·85	45·19	−0·34	−1

The distribution in space was no less abnormal than that in time, the precipitation having been more or less in excess in Burma, northwest and central India, and Hyderabad, and below normal in Eastern Bengal and Assam, Bengal, the United Provinces, Bombay, Mysore and Madras. Expressed

as a percentage of the normal rainfall the excess was on the whole most conspicuous in Sind, and the defect in Mysore.

The most striking feature of the meteorology of the year was however the unprecedentedly heavy rainfall in the dry zone of northwest India—a result almost entirely of strong determination of the monsoon currents in July and August.

TABLE 116.

Division.	ANNUAL RAINFALL.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"		
Burma	82·13	78·59	+3·54	+5
Eastern Bengal and Assam	77·88	92·51	−14·63	−16
Bengal	44·45	54·53	−10·08	−18
United Provinces	33·37	39·52	−6·15	−16
Punjab	29·88	20·83	+8·55	+41
North-West Frontier Province	27·61	16·36	+11·25	+69
Sind	12·18	6·63	+5·55	+84
Rajputana	33·96	21·57	+12·39	+57
Bombay	44·40	47·82	−3·42	−7
Central India	38·70	38·38	+0·32	+1
Central Provinces	44·83	41·41	+3·47	+8
Hyderabad	33·56	32·49	+1·07	+3
Mysore	27·48	34·61	−7·13	−21
Madras	40·06	44·11	−4·05	−9
Mean of India when the size of the above areas is taken into account.	44·35	45·19	−0·84	−1

In the Indian Ocean the year's precipitation was well above normal at Mauritius and in defect at the Seychelles and Zanzibar. The excess at Mauritius was remarkably persistent, being shown in nine of the twelve months.

TABLE 117.

Station.	ANNUAL RAINFALL.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Seychelles	82·07	101·37	−19·30	−19
Zanzibar	54·07	60·39	−6·32	−10
Mauritius	62·45	49·08	+13·37	+27

HEM RAJ.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 37 Stations in India, etc., in the year 1908.

Table

Abstract of observations taken at 10 hrs. and 16 hrs. at

Number of sub-division.	Station.	Elevation of bar-eistern above sea-level, in feet.	Pressure.						Temperature of air.									
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressure.	Departure from normal.	Mean reduced to S. L. and gravity 45° Lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	I.—Burma.																	
2	Rangoon	36	29·882	29·765	·117	29·825	—·008	29·798	88·9	73·4	15·5	101·9	60·3	41·6	82·0	85·6	79·2	0
	III.—Bengal.																	
6	Calcutta	21	·839	·724	·115	·780	—·009	·746	88·4	70·4	18·0	106·9	47·6	59·5	81·9	85·9	78·9	+0·9
	IV.—United Provinces of Agra and Oudh.																	
10	Allahabad	309	·526	·408	·118	·462	—·014	·721	91·8	66·7	25·1	115·5	38·8	76·7	82·9	89·9	78·1	+0·8
11	Dehra Dun	2,253	27·608	27·523	·085	27·566	—·013	·756	83·3	60·3	23·0	1 08·2	37·6	70·9	75·0	72·4	70·6	+0·9
	V.—Punjab.																	
12	Lahore	702	29·115	29·025	·090	29·062	—·009	·734	88·2	62·8	25·9	116·7	36·3	80·4	78·8	86·6	74·7	—0·1
	VIII.—Rajputana.																	
19	Jaipur	1,437	28·432	28·332	·100	28·375	—·002	·758	90·4	65·1	25·3	112·3	37·0	75·3	82·6	88·0	76·7	—0·5
	Udaipur	? 1,925	27·961	27·860	·101	27·907	...	·770	87·8	63·6	24·2	100·6	36·4	70·2	80·5	85·7	75·4	...
	IX.—Bombay.																	
26	Bombay	37	29·883	29·753	·100	29·830	+·003	·807	86·0	74·7	11·3	100·1	60·4	39·7	80·4	82·4	79·3	+0·1
	XI.—Central Provinces.																	
24	Nagpur	1,017	28·851	28·722	·129	28·786	+·006	·755	92·0	67·9	24·1	113·2	44·1	69·1	82·5	89·5	79·0	—0·6
	XII.—Hyderabad.																	
29	Hyderabad	1,690	·204	·090	·114	·148	+·001	·767	90·6	68·8	21·8	109·3	49·0	60·3	82·6	87·5	78·7	+0·2
	XIII.—Mysore.																	
30	Bangalore	3,021	26·946	26·835	·111	26·894	—·007	·796	85·3	63·8	21·5	100·0	51·9	48·1	76·7	82·4	73·3	+0·4
	Mysore	2,518	27·444	27·323	·121	27·387	—·004	·806	86·3	65·4	20·9	98·3	54·1	44·2	78·1	83·8	74·5	—0·2
	XIV.—Madras.																	
32	Periyakulam	944	28·962	28·832	·130	28·897	...	·770	91·7	69·3	21·9	102·0	57·1	44·9	83·4	87·5	80·8	...
	Pudukkottai	318	29·606	29·471	·135	29·539	...	·785	93 6	74·2	19·4	103 3	63·1	40·2	86·3	90·6	84·0	...
	Madras	22	·890	·775	·115	·837	—·006	·790	91·5	74·7	16·8	100·6	60·8	39·8	85·9	89·2	82·0	+0·2
	Station in the Bay.																	
1	Port Blair	58	·862	·768	·096	·817	—·003	·803	85·9	76·3	9·6	94·6	67·8	26 8	82·6	83 8	80 0	—1·1

N.B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

A.

37 stations in India, etc., in the year 1908.

Temperature Wet-bulb.				Vapour tension in inches of mercury.					Humidity.					Cloud.				Rainfall.		Station.	Number of sub-division.
Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 16 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Total rainfall for the year.	Heaviest rainfall during the year.		
20	21	23	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
																				I.—Burma.	
71·6	75·2	75·5	74·1	·761	·793	·753	·785	—·010	91	73	54	81	—1	5·4	5·8	5·6	+0·3	109·52	4·23	Rangoon	2
																				III.—Bengal.	
67·9	73·1	73·4	71·4	·686	·726	·681	·713	—·031	88	65	55	72	—5	3·9	4·3	4·1	—0·4	60·77	11·95	Calcutta	6
																				IV.—United Provinces of Agra and Oudh.	
60·6	66·9	67·8	65·1	·498	·452	·416	·476	—·091	71	43	32	52	—9	2·8	3·1	3·0	—0·5	33·92	4·44	Allahabad	10
55·2	62·3	63·5	60·3	·401	·432	·419	·426	—·041	70	49	43	57	—7	3·1	3·8	3·5	—0·5	75·56	9·43	Dehra Dun	11
																				V.—Punjab.	
59·3	66·3	68·8	64·4	·477	·520	·582	·509	+ 018	77	52	40	59	+2	2·3	2·6	2·5	—0·4	33·39	4·20	Lahore	12
																				VIII.—Rajputana.	
57·3	65·1	66·5	63·0	·419	·442	·406	·434	—·031	62	40	32	49	—4	2·6	3·4	3·0	—0·7	36·55	3·10	Jaipur	19
58·3	65·2	66·6	64·4	465	·490	·515	·493	...	72	46	42	54	...	2·6	3·1	2·9	...	24·38	2·46	Udaipur	
																				IX.—Bombay.	
70·7	3·6	75·0	73·1	·706	·756	·780	·765	— 026	81	71	70	77	—2	3·7	3·6	3·7	—0·1	63·54	5·09	Bombay	26
																				XI.—Central Provinces.	
60·0	67·1	68·8	65·3	·454	·489	·467	·476	—·056	64	45	37	51	—4	3·3	4·2	3·8	—0·7	50·03	5·11	Nagpur	24
																				XII.—Hyderabad.	
62·2	67·5	68·2	66·0	·405	·497	·458	·491	—·089	70	47	38	54	—7	4·5	5·3	4·9	+0·7	37·30	6·03	Hyderabad	29
																				XIII.—Mysore.	
61·1	66·6	66·7	64·8	·516	541	·479	·522	—·020	86	60	45	66	—2	4·5	5·1	4·8	...	25·50	2·62	Bangalore	30
62·6	67·4	67·8	65·9	·543	·543	·488	·534	—·023	85	57	44	64	—2	5·3	6·4	6·1	0	26·27	3·21	Mysore	
																				XIV.—Madras.	
65·7	70·9	72·3	69·3	·596	·597	·555	·578	...	79	53	44	58	...	3·2	5·6	4·4	...	33·48	2·61	Periyakulam	32
70·0	73·7	74·2	72·6	·689	·668	·635	·664	...	81	56	46	62	...	5·8	6·3	6·1	...	27·80	3·18	Pudukkottai	
72·5	76·8	77·2	75·5	·779	·806	·822	·819	+ 010	90	66	66	76	0	4·6	4·5	4·6	—0·5	54·85	6·58	Madras	
																				Station in the Bay.	
73·5	77·0	77·2	75·9	·788	·857	·849	·840	—·053	87	77	74	82	—2	7·1	7·2	7·2	+1·3	140·78	10·17	Port Blair	1

Table

Abstract of observations taken at 10 hrs. and 16 hrs. at

Number of sub-division.	Station.	Elevation of bar-eistern above sea-level, in feet.	Pressure.						Temperature of air.									
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to 32° and gravity of Lat. 45°	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	Kashmir.																	
14	Srinagar	5,204	24·883	24·806	·087	24·846	−·010	24·817	67·5	44·9	22·6	90·7	12·1	84·6	59·6	64·9	54·7	+ 1·4
	Leh	11,503	19·703	19·610	·093	19·657	−·063	19·625	54·7	30·6	24·1	81·6	− 1·1	82·7	46·4	51·2	41·0	0
	Baluchistan.																	
16	Quetta	5,502	24·639	24·564	·074	24·593	+·005	24·563	72·3	(d) 45·1	29·2	100·4	13·2	86·6	65·2	71·6	(d) 59·6	(d) + 0·1
	Hill Stations excluding Kashmir and Baluchistan.																	
	Simla	7,224	23·115	23·057	·048	23·084	+·001	23·046	61·6	50·3	11·3	83·5	25·1	58·4	57·2	55·8	55·8	+ 0·7
	Sanain	...	·161	·105	·050	·125	...	...	62·7	43·4	19·3	84·0	19·9	64·1	55·6	50·1	52·8	...
	Kalabagh (b)	...	20·141	20·110	·031	20·119	...	...	51·3	30·6	11·7	65·2	20·3	44·9	46·9	42·8	45·0	...
	Chakrata	7,022	23·295	23·246	·049	23·262	+·010	23·233	67·1	50·1	17·0	85·3	26·7	58·6	59·7	60·0	58·3	+ 1·6
	Muktesar	7,502	22·817	22·763	·054	22·809	...	22·766	65·4	49·0	16·4	85·5	27·2	58·3	58·3	61·0	59·9	...
	Katmandu	4,886	25·638	25·583	·105	25·583	+·017†	25·536	77·9	52·9	25·0	95·0	30·8	64·2	67·1	73·9	65·1	+ 0·6†
	Darjeeling	7,376	23·017	22·963	·055	22·986	−·004	22·941	61·0	48·0	13·0	74·1	31·8	42·3	56·5	57·7	54·3	+ 1·7
	Pachmarhi	3,529	26·439	26·353	·086	26·392	−·006	26·339	80·2	60·1	20·1	99·2	31·6	67·6	71·9	78·1	69·9	− 0·2
	Mount Abu	3,945	·044	25·973	·071	·004	−·004	25·954	74·9	61·9	13·0	91·7	37·9	53·8	70·7	72·8	66·1	− 0·7
	Chikalda	3,643	·332	26·237	·096	·281	−·016	26·225	80·5	63·1	17·4	99·7	44·6	55·1	72·9	78·1	71·6	− 0·1
	Ootacamund	7,372	23·061	22·983	·078	23·019	...	22·955	65·4	48·2	17·2	74·5	33·9	40·6	61·8	60·8	56·5	...
	Kodaikanal	7,068	22·841	·771	·070	22·806	...	·742	64·4	51·0	13·4	75·2	38·0	37·2	60·7	59·0	57·7	...
	Dodabetta	8,639?	·049	21·993	·053	·018	...	21·956	59·2	48·1	11·1	68·3	29·5	23·8	56·2	56·1	53·4	...
	Extra India.																	
	Minjoey	7	29·970	29·876	·094	29·923	...	...	...	...	...	...	...	...	...	...	...	...
	Zanzibar	72	29·990	·888	·114	·942	−·001	29·947	84·5	76·5	8·0	91·3	69·3	21·5	80·4	83·2	79·6	+ 0·4
	Diego Garcia (b) (c)	...	29·937	·867	·070	·902	...	...	84·0	76·8	7·2	87·8	72·0	15·8	80·6	81·4	80·4	...
	Seychelles	15	·990	·896	·094	·945	0†	·883	83·3	77·4	5·9	88·0	72·9	15·1	81·9	82·0	79·1	+ 1·1†
	Mauritius	181	...	...	...	·867	−·024	·995	...	...	...	89·1	53·8	35·3	...	...	73·5	+ 0·2

N. B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(c) Mean of 10 months. (b) Observations of 9 months. † Total rainfall from May to October. (d) Mean of 11 months.

A—*concld.*

37 stations in India, etc., in the year 1908.

Temperature, Wet-bulb				Vapour tension in inches of mercury.					Humidity.					Cloud.				Rainfall.		Station.	Number of sub-division.
Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 10 hours.	Mean of two previous columns.	Departure from normal.	Total rainfall for the year.	Heaviest rainfall during the year.		
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
																				Kashmir.	
42·1	52·6	59·2	51·3	·271	·402	·406	·365	+·002	80	77	72	76‡	—4	4·2	5·2	4·7	+ 0·2	34·10	2·49	Srinagar	14
26·8	35·5	38·2	33·5	·133	·148	·147	·142	+·007	68	44	35	51	0	4·8	6·1	5·5	— 0·1	4·81	0·70	Leh	
(a)			(a)				(a)	(a)	(a)			(a)	(a)							**Baluchistan.**	
42·0	49·2	50·9	48·0	·258	·204	·183	·228	—·034	74	32	35	47	—4	1·6	2·4	2·0	— 0·3	6·16	0·69	Quetta	16
																				Hill Stations excluding Kashmir and Baluchistan.	
43·3	47·7	49·1	46·7	·234	·253	·271	·253	—·030	58	50	53	55	—6	3·9	5·2	4·6	— 0·5	54·22	2·85	Simla	
...	46·5	48·2	...	...	·245	·261	...	...	...	58	52	...	...	4·2	5·3	4·8	...	57·57	5·20	Sanain	
...	41·6	42·1	...	...	·230	·236	...	...	...	70	67	...	...	4·8	6·2	5·5	...	54·09§	7·70	Kalabagh (b)	
44·4	50·1	50·8	48·5	·256	·286	·300	·281	—·016	65	53	56	60	—5	3·2	4·2	3·7	— 0·8	66·91	6·36	Chakrata	
42·2	48·3	50·7	47·1	·221	·256	·284	·254	...	59	50	52	55	...	4·1	5·0	4·6	...	34·75	2·58	Muktesar	
50·9	59·3	61·6	57·2	·366	·446	·420	·424	—·025	87	64	50	69	—5	2·7	3·6	3·2	— 1·4	51·10	3 33	Katmandu	
45·9	53·1	54·4	51·2	·307	·389	·407	·369	+·014	85	81	81	84	—2	5·9	6·7	6·3	— 0·4	90·70	4·54	Darjeeling	
53·4	60·0	61·9	58·4	·361	·398	·384	·383	—·039	66	52	43	57	—3	2·3	2·4	2·4	— 2·0	74·17	4·31	Pachmarhi	
3·4	57·8	58·9	56·7	·334	·350	·359	·360	—·016	57	47	45	52	—1	3·1	3·1	3·1	— 0·4	129·99	11·30	Mount Abu	
55·8	60·8	63·0	59·9	·382	·405	·412	·402	—·030	64	52	46	57	—3	4·1	4·4	4·3	— 0·1	61·61	3·66	Chikalda	
45·6	53·7	54·8	51·4	·288	·335	·372	·331	...	83	62	70	72	...	5·1	6·9	6·0	...	38·43	1·55	Ootacamund	
46·2	53·9	54·8	51·4	·275	·340	·391	·335	...	72	65	79	72	...	4·8	7·3	6·1	...	59·17	2·38	Kodaikanal	
44·4	49·3	50·6	48·1	·259	·284	·315	·284	...	76	65	71	71	...	5·9	7·2	6·6	...	39·46	2·75	Dodabetta	
																				Extra India.	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	4·2	4·8	4·5	...	77·16	4·36	Minicoy	
72·0	75·2	75·1	74·1	·729	·808	·759	·790	—·026	79	78	66	76	—3	6·4	4·8	5·6	+ 0·5	54·07	7·44	Zanzibar	
...	75·8	76·1	...	...	·834	·835	...	...	...	80	78	...	...	5·1	5·0	5·1	...	68·89‖	4·77	Diego Garcia (b), (c)	
71·9	75·7	75·6	74·5	·717	·823	·820	·805	—·008	76	77	74	76	—3	6·0	6·3	6·2	— 0·1†	82·07	6·96	Seychelles	
...	...	...	68·8	...	...	...	·632	+·009	...	...	3.	76	+1	...	...	5·5	+ 0·1	62·45	7·65	Mauritius	

† Departures from old normals.
‡ Mean of three previous columns.
‖ Total rainfall from January to August.

(c) Observations of 9 hours and 15 hours.

Table B.—Abstract of observations taken at 8 hrs. at 243 stations in India, etc., in the year 1908.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,500 stations.

Division.	Pressure departure from normal of year.	Temperature of air.								Wind.	Hygrometry.				Cloud.		Rainfall.		
		Mean maximum of year	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Absolute range during year.	Departure of velocity from normal.	Mean humidity of year.	Departure from normal of year.	Mean vapour tension of year.	Departure from normal of year.	Mean cloud amount of year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.
																	"	"	"
Burma	—·004	88·3	—0·5	70·6	+0·7	79·4	+0·1	17·7	49·4	—0·4	84	+1	·743	+·002	4·7	—0·2	82·13	78·59	+3·54
Eastern Bengal and Assam	+·001	85·7	+0·8	67·5	—0·4	76·6	+0·2	18·2	57·1	—0·6	85	—2	·713	—·016	4·1	—0·9	77·83	92·51	—14·68
Bengal	—·003	89·0	+0·6	68·3	—0·7	78·6	—0·1	20·8	67·0	—0·1	74	—3	·656	—·032	3·5	—0·3	44·45	54·53	—10 08
United Provinces of Agra and Oudh	—·004	89·5	+1·1	65·3	—0·4	77·4	+0·4	24·3	75·9	—0·2	64	—5	·535	—·033	2 4	—0·7	33·37	39·52	—6·15
Punjab	+·004	88·4	—0·9	63·4	+0·2	75·9	—0·4	25·0	80·3	+0·3	61	—1	·485	—·014	2·4	—0·3	29·38	20·83	+8·55
North-West Frontier Province	—·004	85·9	—2·2	60·3	+0·5	72·9	—0·9	25·0	84·3	—0·5	65	+1	·485	— 001	2·6	+0·1	27·61	16·36	+11·25
Sind	+ 004	91·5	—0·6	67·7	0	79·6	—0·3	23·8	74·5	—2·0	65	+3	·605	+ 033	2·6	—0·1	12·18	6·63	+5·55
Rajputana	—·002	90·1	—1·1	65·6	—1·4	77·9	—1·2	24·6	74·3	—0·2	57	+1	·484	—·016	2·3	—0·9	33 96	21·57	+12·39
Bombay	+·003	88·9	—0·4	68·5	—0·6	78·7	—0·5	20 4	56·1	—0·6	66	—1	·604	—·022	3·3	—0·2	44·40	47·62	—3·12
Central India	—·004	88·8	+0·1	64·7	—0·1	76·8	0	24·1	72·0	—0·8	60	—3	·509	—·012	3·2	+0·2	38·70	38·38	+0·32
Central Provinces	+·003	90·0	—0·1	66·1	—0·9	78·0	—0·5	23·8	70·1	+0·4	55	—6	·466	—·063	3·5	0	44·88	41·41	+3·47
Hyderabad	0	91 0	+0·1	68·5	—0·4	79·8	—0·1	22·5	60·9	—0·5	60	—5	·531	—·063	3·6	+0·5	33·56	32·49	+1·07
Mysore	+·001	85·6	+0·7	64·7	—0·1	75·2	+0·3	20·9	46·3	+0·8	74	—1	·573	—·010	5·0	—0·3	27·48	34·61	—7·13
Madras	+·001	90·7	+0·1	73·6	—0·1	82·2	0	17·1	44·3	+0·7	74	—1	·736	—·024	4·7	+0·1	40·06	44·11	—4·05

Table

(2) *Abstract of observations taken at 8 hrs. at*

Number of sub-division.	Station.	Elevation of bar. cistern above sea-level, in feet.	Pressure, 8 hrs. in inches.							Temperature of air.										
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to correct gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of daily highest and lowest maximum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	I.—Burma.																				
2	Mergui	56	29·878	+·008	29·869	30·031	29·608	·383	·169	77·6	87·5	0	72·8	+1·6	80·2	+0·8	14·7	95·9	62·4	33·5	23·3
	Tavoy	19	29·920	—·004	29·871	30·131	29·730	·401	·182	75·7	87·6	—0·2	72·2	+1·1	80·9	+0·4	15·4	99·0	58·8	42·2	25·2
	Moulmein	94	29·829	+·005	29·861	30·074	29·606	·468	·201	79·7	88·7	—0·4	73·0	+0·6	80·4	+0·1	14·8	101·5	62·8	38·7	23·7
	Rangoon	36	29·870	—·008	29·843	30·125	29·636	·489	·213	79·7	88·9	—0·6	73·5	+0·7	81·2	0	15·3	102·1	60·4	41·7	24·3
	Bassein	277	29·792	—·002	29·837	30·133	29·637	·496	·194	76·0	88·4	+0·3	72·7	+0·6	80·5	+0·5	15·7	99·7	57·9	41·8	24·1
	Diamond Island	41	29·859	—·006	29·835	30·102	29·622	·480	·180	79·9	84·8	—0·7	76·3	+1·0	80·5	+0·2	8·6	93·4	69·2	23·2	15·9
	Toungoo	164	29·743	+·006	29·752	29·926	29·426	·500	·165	76·0	89·9	—0·3	71·4	+0·8	80·8	+0·2	18·5	105·4	52·6	52·8	28·6
	Kyaukpyu (a)	...	29·625	...	29·784	30·101	29·604	·497	·196	...	...	...	...	...	...	...	...	...	...	...	...
	Akyab	20	29·855	—·017	29·818	30·163	29·568	·595	·211	74·8	84·8	—1·4	72·2	0	78·5	—0·7	12·6	96·0	57·3	38·6	21·2
3	Thayetmyo	121	29·769	0	29·833	30·090	29·515	·575	·203	76·6	91·9	+0·1	70·2	+0·6	81·1	+0·6	21·7	107·0	46·9	60·1	31·9
	Minbu	165	29·731	+·007	29·840	30·036	29·475	·562	·199	76·1	91·9	—0·4	71·9	+0·8	82·0	+0·3	20·0	108·7	50·6	58·1	31·0
	Yamethin	657	29·208	—·023	29·327	29·538	28·960	·578	·199	74·7	90·4	—1·8	70·3	+0·9	80·3	—0·5	20·1	111·3	49·5	60·8	30·8
	Mandalay	250	29·628	—·002	29·830	29·942	29·376	·566	·203	77·1	93·5	+1·1	69·6*	—0·1*	81·3	+0·4	24·5*	109·0*	50·8	58·2	36·2*
	Monywa	230	29·621	...	29·830	29·967	29·362	·605	·207	75·8	92·4	...	71·8	...	82·1	...	20·5	110·8	52·6	58·2	33·3
	Loshio	2,751	27·190	— ·017	27·016	27·365	26·890	·475	·193	65·4	81·0	—1·6	60·4	+0·3	70·7	—0·8	20·6	97·3	40·9	57·3	31·8
	Bhamo	381	29·508	+·009	29·555	29·864	29·232	·632	·225	60·5	86·0	—0·6	65·4	+0·2	75·7	—0·2	20·7	102·9	44·1	55·8	32·0
	Myitkyina	458	29·410	...	29·538	29·769	29·129	·640	·230	70·9	86·4	...	66·0	...	75·7	...	19·4	106·7	42·5	66·2	31·7
	II.—Eastern Bengal and Assam.																				
4	Dibrugarh	359	(b) 30·061	...	(b) 29·822	29·988	29·384	·704	(b) ·250	66·6	81·4	...	63·3	...	73·4	...	16·1	93·3	43·1	50·8	29·2
	Sibsagar	333	29·527	+·010	29·876	29·942	29·222	·720	·231	69·6	81·3	—0·6	65·4	—0·5	73·3	—0·6	15·9	93·6	43·2	51·4	27·4
	Tezpur	252	29·632	...	29·940	29·973	29·300	·673	·232	69·5	84·4	...	66·7	...	75·0	...	17·7	98·1	45·9	52·2	27·5
	Gauhati	195	29·689	...	29·845	30·055	29·331	·724	·247	70·2	86·0	...	65·5	...	75·8	...	20·5	99·5	44·6	54·9	30·8
	Dhubri	115	29·715	—·007	29·823	30·102	29·319	·783	·252	70·8	83·4	+0·5	67·3	—0·4	75·6	+0·1	15·6	100·2	46·8	53·4	25·6
	Silchar	104	29·789	0	29·849	30·124	29·421	·703	·237	72·0	86·9	+0·7	67·0	—0·5	77·0	+0·1	19·9	101·5	46·3	55·2	30·8
5	Cox's Bazar (d)	80	29·789	...	...	30·132	29·5.3	6.9	·216	...	...	...	...	...	...	...	...	...	...	...	...
	Chittagong	87	29·788	—·004	29·825	30·121	29·42.	·701	·227	74·1	85·5	+0·7	68·6	—0·9	77·1	—0·1	16·9	97·1	49·4	47·7	27·0
	Nowkhali	43	29·827	...	29·818	30 160	29·441	·719	·224	74·4	84·3	...	69·3	...	76·8	...	15·0	96·8	47·4	49·4	25·9
	Barisal	12	29·845	—·004	29·803	30·200	29 ,21	·776	·2.0	76·1	86·6	+0·5	69·8	—0·6	7>·2	—0·1	16·7	98·8	45·1	50·7	27·4
	Comilla	36	29·832	...	29·816	30·152	29·428	·754	·228	74·1	87 5	...	68·3	...	77·9	...	19·2	102·3	45·3	57·0	30·5
	Narayanganj	28	29·836	+·003	29·841	30·195	29·396	·799	·236	74·5	87·1	+0·7	70·0	—0·5	78·6	+0·1	17·1	102·0	46 8	55·2	28 1
	Faridpur	46	29·813	...	29 810	30·474	29·345	·829	+2·2	73·9	86·8	...	67·8	...	77·3	...	16·9	103·8	48·4	60·4	30·2
	Sirajganj	49	29·808	...	29 807	30·481	29·275	·906	·257	72·7	86 6	...	68·1	...	77·4	...	18·5	107·8	43·8	64·0	30·2
	Mymensingh	68	29 807	+·002	29·823	30·157	29 335	·822	·239	73·2	86·0	+1·7	68·5	+0·1	77·3	+0·9	17·6	103 1	45·1	57·0	28·4
	Bogra	75	29·780	0	29·809	30·161	29·298	·855	·259	73·0	87·6	+1·1	67·8	—0·3	77·7	+0·4	19 8	109·2	44·2	64·0	31·4
	Rampur Boalia	70	29·780	...	29 800	30·164	29·223	·941	·265	74·7	88·3	...	68·3	...	78·3	...	20·0	109·1	40·6	68·5	33·4
	Malda	72	29·765	...	29·790	30·.50	29·358	·792	·256	73·2	87 1	...	67·0	...	77·1	...	20·2	107·8	40·5	67·3	33·0
	Dinajpur	123	29·719	+·007	29·801	30·108	29·273	·835	·264	71·2	87·0	+0·9	65·6	—1·3	76·4	—0·2	21·2	106·3	37·6	69·3	33·5

N.B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 10 months.

(a) Mean of 8 months.
(d) ,, ,, 9 Do.
(b) ,, ,, 21 Do.

B.

243 stations in India, etc., in the year 1908.

Wind direction. Number of winds from: Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Wind velocity. Mean velocity in miles per hour.	Normal.	Departure from normal of year.	Hygrometry, 8 hrs. Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Cloud. Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Rainfall. Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	Station.
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									I.—Burma.
194	18	25	8	40	6	27	15	33	(a) 1·6	(a) 2·1	(a) −0·5	89	+4	·824	+·008	3·0	−2·3	169	154·20	+14·80	179·06	163·37	+10·69	4·50	Mergui.
366	...	...	...	...	...	...	...	...	1·1	1·5	−0·4	90	+3	·805	+·004	5·0	−0·1	166	147·30	+18·70	205·35	209·28	−3·93	3·65	Tavoy.
124	16	45	28	60	55	30	5	3	3·8	3·1	+0·7	89	+2	·919	+·019	4·7	−0·2	156	140·60	+15·40	212·25	183·92	+28·33	5·37	Moulmein.
38	59	93	14	70	83	49	24	23	4·4	4·3	+0·1	85	−3	·798	−·007	5·6	+0·6	142	123·10	+18·90	169·52	93·78	+12·74	4·23	Rangoon.
9	17	24	21	23	51	47	55	37	4·6	4·4	+0·2	91	+3	·833	+·016	3·7	−1·2	131	128·50	+2·50	104·92	112·00	−7·08	5·05	Bassein.
17	34	73	24	16	18	66	39	59	9·1	8·7	+0·4	80	+1	·829	+·012	4·7	−0·7	127	120·44	+6·56	134·65	116·08	+18·57	6·24	Diamond Island.
77	38	29	21	90	69	14	5	23	3·6	3·3	+0·3	87	+1	·789	+·011	5·7	+0·5	124	113·60	+10·40	98·17	79·11	+19·06	3·36	Toungoo.
6	18	26	59	61	40	8	24	3	3·8	...	...	...	...	...	...	5·2	...	139	...	...	(p) 194·45	...	...	7·07	Kyaukpyu (m).
45	42	126	64	31	27	13	9	3	3·7	3·2	+0·5	91	+3	·911	+·006	5·3	+0·2	127	118·70	+8·30	200·58	189·20	+11·38	8·31	Akyab.
1	54	42	2	47	124	86	1	9	5·3	5·1	+0·2	75	−1	·708	0	4·7	+0·5	76	72·50	+3·50	43·45	36·72	+6·73	2·58	Thayetmyo.
23	10	1	2	183	31	12	11	92	5·0	8·7	−3·7	74	−1	·688	−·014	4·5	+1·1	87	50·50	+6·50	44·72	31·86	+12·86	2·65	Minbu (c).
59	37	2	...	125	102	3	...	33	4·3	5·7	−1·4	80	+2	·697	−·005	5·1	+2·4	59	61·20	−2·20	37·78	37·56	+0·22	2·63	Yamethin.
217	11	2	3	69	47	8	...	5	4·5	5·0	−0·5	72	−3	·678	−·032	2·3	−2·0	43	47·50	−4·50	30·30	32·36	−1·56	2·35	Mandalay (i).
67	61	9	20	100	32	1	1	55	3·4	...	...	77	...	·697	...	4·7	...	46	44·60	+1·40	30·25	28·40	+1·85	3·00	Monywa.
161	5	15	8	...	14	10	6	5	(e) 3·0	...	...	86	0	·562	+·001	5·6	−1·1	112	...	...	62·85	61·28	+1·57	2·70	Lashio (f).
269	6	43	7	...	...	16	3	2	1·6	2·4	−0·8	91	+4	·684	+·010	5·0	−0·1	107	99·80	+7·20	83·43	73·38	+10·05	4·60	Bhamo.
207	5	50	58	29	6	5	4	2	2·9	...	...	85	...	·665	...	5·8	...	100	...	...	63·45	74·84	−11·39	2·92	Myitkyina.
																									II.—Eastern Bengal and Assam.
357	1	2		1	...	1	...	...	(d) 0·3	...	...	91	...	·660	...	7·0	...	122	131·50	−9·50	120·54	114·99	+5·55	5·35	Dibrugarh.
226	16	71	5	7	5	24	3	8	1·6	2·4	−0·8	90	−5	·687	−·024	6·3	−0·8	118	125·00	−9·00	81·70	96·21	−14·51	7·87	Sibsagar (c).
162	2	91	53	25	3	23	4	3	3·5	...	...	89	...	·679	...	3·8	...	94	103·00	−9·00	59·40	71·66	−12·26	3·63	Tezpur.
265	26	23	11	9	14	8	5	5	1·7	...	...	89	...	·690	...	6·9	...	79	91·50	−12·50	54·74	63·39	−8·65	3·25	Gauhati,
61	12	50	175	31	14	19	3	1	6·4	5·2	+1·2	88	+1	·703	+·005	2·6	−2·3	91	92·50	−1·50	94·69	93·28	+1·41	11·25	Dhubri.
257	1	1	48	52	...	2	5	...	3·1	2·4	+0·7	86	−2	·707	−·020	3·3	−3·1	119	136·80	−17·80	98·97	124·86	−25·89	4·18	Silchar.
5	18	39	54	94	30	8	4	2	5·5	...	...	...	...	...	...	4·3	...	101	...	...	132·72	...	...	12·33	Cox's Bazar (l) (d).
94	22	60	23	124	28	4	5	7	3·2	4·9	−1·7	86	−1	·746	−·017	3·6	−1·4	94	96·41	−2·41	95·25	96·52	−1·27	9·64	Chittagong.
84	35	44	29	84	59	20	7	4	4·0	...	...	86	...	·753	...	3·7	...	101	100·36	−8·36	89·63	113·68	−24·05	5·02	Noakhali.
158	26	26	16	37	63	27	2	11	1·7	3·2	−1·5	86	0	·796	−·006	2·9	−1·9	85	97·90	−12·90	61·04	77·00	−10·56	3·23	Barisal
200	5	7	4	79	64	12	...	2	2·7	...	...	86	...	·757	...	2·7	...	93	100·25	−7·25	81·22	90·24	−9·02	6·44	Comilla.
110	8	17	41	81	37	44	9	19	3·5	4·9	−1·4	84	−2	·754	−·024	4·5	−0·8	83	94·08	−8·08	61·70	69·60	−7·90	4·20	Narayanganj.
109	44	3	21	62	96	15	3	13	3·0	...	...	85	...	·749	...	4·1	...	80	89·40	−9·40	60·80	68·56	−7·96	10·11	Faridpur,
165	6	13	33	62	46	14	11	15	3·0	...	...	85	...	·723	...	4·8	...	62	75·66	−16·66	48·09	61·38	−13·29	3·65	Sirajganj.
155	4	6	82	74	24	8	4	8	2·1	2·7	−0·6	84	−4	·727	−·012	6·8	+2·0	96	104·22	−8·22	80·07	87·55	−7·48	6·19	Mymensingh (e).
234	17	10	75	7	7	5	4	7	2·1	3·0	−0·9	79	−5	·697	−·033	3·4	−0·8	65	81·84	−16·84	46·00	67·14	−21·14	6·35	Bogra,
239	13	8	3	16	21	15	...	...	2·5	...	...	76	...	·701	...	3·3	...	57	75·14	−18·14	31·94	57·62	−25·68	2·35	Rampur Boalia (e).
58	30	52	60	55	33	24	11	53	4·1	...	...	83	...	·712	...	2·1	...	45	69·20	−24·20	35·86	54·18	−18·32	2·52	Malda.
88	15	61	119	29	12	17	22	13	3·5	3·6	−0·1	84	+1	·682	−·012	4·0	−0·2	55	77·09	−22·09	44·65	70·99	−26·33	6·40	Dinajpur.

(a) mean of 6 months.
(c) Wind observations 1 less.
(f) „ „ 4 „
(j) „ „ 142 „
(l) „ „ 112 „
(m) „ „ 121 „
(g) „ „ 2 „

(d) mean of 9 months.
(e) mean of 7 months.
(i) „ 8 Do.

(p) Rainfall from January to April 1908 wanting.
* Uncorrected for scale error.

Table

(2) *Abstract of observations taken at 8 hours at*

Number of sub-division.	Station.	Elevation of bar cistern above sea-level, in feet.	Pressure, 8 hrs., in inches.							Temperature of air.										
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	II.—Eastern Bengal and Assam—concld.																				
5	Rangpur	123	29·741	...	29·823	30·104	29·323	781	·255	73·0	85·6	...	66·3	...	76·0	...	19·3	102·6	40·6	62·0	30·6
	Jalpaiguri	284	29·578	+·002	29·826	29·959	29·187	·7	·252	71·2	85·0	+2·2	66·8	+0·8	76·4	+1·5	19·2	99·4	44·6	54·8	29·4
	Cooch Behar	156	29·715	...	29·831	30·088	29·305	·783	·254	71·0	84·4	...	66·8	...	75·6	...	17·7	97·3	44·6	52·7	27·8
	III.—Bengal.																				
6	Saugor Island	25	29·815	—·009	29·784	30·204	29·382	·822	·241	77·0	86·7	+1·1	73·5	—0·2	80·1	+0·5	13·2	103·0	49·5	53·5	24·4
	Midnapore	149	29·688	...	29·787	30·074	29·242	·832	·235	75·4	90·5	...	69·9	...	80·2	...	20·6	111·8	46·7	65·1	32·6
	Calcutta	21	29·826	—·007	29·793	30·213	29·377	·836	·238	75·0	88·4	+1·9	70·4	—0·2	79·4	+0·9	18·1	107·1	47·2	59·9	29·7
	Jessore	33	29·832	+·001	29·803	30·204	29·305	·899	·247	75·4	87·4	—0·3	68·9	—1·0	78·2	—0·7	18·5	106·6	45·7	60·3	30·7
	Krishnagar	47	29·798	...	29·794	30·193	29·318	·875	·247	73·4	89·4	...	63·5	...	79·0	...	21·0	110·1	43·0	67·1	33·8
	Burdwan	99	29·745	—·006	29·767	30·137	29·276	·861	·245	74·5	89·7	+0·7	69·9	—0·7	79·8	0	19·9	110·9	46·3	64·6	31·8
	Bankura	343	29·514	...	29·784	29·923	29·069	·853	·274	74·8	90·1	...	69·5	...	79·8	...	20·6	112·1	46·2	65·9	33·7
	Raniganj	334	29·510	...	29·805	29·902	29·057	·845	·249	72·8	89·9	...	63·4	...	79·2	...	21·4	113·5	45·0	68·5	34·0
	Berhampore	67	29·783	—·003	29·800	30·174	29·257	·917	·266	73·6	88·9	+1·1	69·1	—0·5	79·0	+0·3	19·8	110·3	43·2	67·1	32·1
	Naya Dumka	433		...	29·805	29·742	28·897	·845	·233	74·1	88·8	...	67·6	...	78·2	...	21·2	111·9	42·5	69·4	34·5
7	Balasore	50	29·798	—·002	29·793	30·197	29·287	·910	·252	75·2	88·9	+0·3	70·3	—0·2	79·6	+0·1	18·7	107·4	47·3	60·1	30·3
	False Point	21	29·840	+·004	29·803	30·224	29·336	·888	·254	76·5	85·3	—0·6	70·5	—1·6	77·9	—1·1	14·7	97·1	45·1	52·0	25·8
	Cuttack	80	29·769	—·003	29·793	30·167	29·284	·883	·251	75·2	90·6	—0·8	71·3	—1·3	80·9	—1·1	19·3	111·4	50·7	60·7	30·7
	Puri	24	29·829	...	29·792	30·218	29·397	·821	·241	77·5	85·9	...	73·8	...	79·9	...	12·1	95·6	54·1	41·5	22·2
	Angul	455	29·390	...	29·813	29·770	28·932	·838	·246	74·3	90·3	...	68·7	...	79·5	...	21·6	112·6	46·0	66·6	33·4
	Sambalpur	486	29·308	—·002	29·809	29·748	28·955	·793	·257	75·9	90·7	—0·3	69·2	—0·9	80·0	—0·6	21·6	114·1	44·6	69·5	33·4
8	Chaibassa	733	29·097	+·005	29·799	29·490	28·874	·816	·239	71·4	90·7	+0·2	67·9	—1·0	79·3	—0·4	22·8	113·3	44·2	67·6	34·9
	Ranchi	2,129	29·711	+·005	29·814	29·036	27·359	·677	·224	71·4	85·0	+0·5	63·3	+0·6	75·4	+0·6	19·3	103·7	40·9	67·8	30·6
	Purulia	816	29·004	...	29·737	29·330	28·600	·780	·235	(b) 70·9	90·0	...	67·9	...	79·0	...	22·1	113·0	44·6	68·4	34·9
	Hazaribagh	2,007	27·823	—·004	29·797	28·172	27·488	·684	·224	74·1	84·8	+0·2	65·8	+0·2	75·3	+0·2	19·1	103·7	38·3	70·4	32·0
	Daltonganj	730	29·113	...	29·818	29·519	28·742	·777	·259	71·2	91·2	...	64·7	...	78·0	...	26·5	114·0	36·0	78·0	39·5
9	Purnea	123	29·733	—·002	29·806	30·132	29·308	·824	·263	69·1	87·7	+1·0	64·9	—1·4	76·3	—0·2	22·8	108·7	36·7	72·0	35·6
	Bhagalpur	160	29·686	...	29·801	30·098	29·273	·825	·249	75·8	89·4	...	67·2	...	78·3	...	22·2	112·7	39·8	72·9	36·0
	Monghyr	155	29·683	...	29·793	30·098	29·271	·827	·251	75·0	88·8	...	68·1	...	78·4	...	20·7	110·9	39·9	71·0	34·7
	Darbhanga	165	29·676	—·002	29·801	30·085	29·300	·785	·249	71·5	88·8	+3·0	65·8	—3·1	77·3	0	23·3	108·1	35·2	72·8	36·6
	Pusa	188	29·650	...	29·784	30·067	29·273	·794	·248	72·3	90·2	...	65·3	...	77·7	...	24·9	111·2	35·7	75·5	38·7
	Muzaffarpur	178	29·667	...	29·805	30·089	29·299	·800	·255	72·6	88·3	...	65·9	...	77·3	...	22·9	109·7	36·5	73·2	36·2
	Motihari	221	29·614	...	29·801	30·006	29·237	·769	·251	69·8	89·1	...	64·2	...	76·7	...	24·9	108·7	30·3	72·4	38·4
	Chapra	181	29·647	...	29·795	30·070	29·276	·794	·237	72·5	89·7	...	66·6	...	78·1	...	23·1	111·7	40·6	71·1	36·5
	Patna	183	29·652	—·009	29·792	30·066	29·289	·777	·246	75·4	88·2	+0·5	68·6	+0·1	78·4	+0·3	19·6	109·5	41·2	68·3	33·3
	Arrah	190	29·646	...	29·794	30·062	29·280	·782	·242	73·2	89·9	...	66·8	...	78·4	...	23·2	111·9	40·7	71·2	36·7
	Buxar	239	29·584	...	29·784	30·020	29·201	·819	·249	73·9	90·6	...	68·1	...	79·4	...	22·4	113·0	41·1	71·9	36·8

N. B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.
(b) Mean of 11 months.

B—contd.

243 stations in India, etc., in the year 1908.

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Wind velocity. Mean velocity in miles per hour.	Normal.	Departure from normal of year.	Hygrometry, 8 hrs. Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Cloud. Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Rainfall. Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	Station.
23	24	25	26	27	28	29	30	31	33	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	49
																									II.—Eastern Bengal and Assam.
145	3	43	50	59	21	15	22	8	1·7	...	...	80	...	·093	...	2·3	...	60	81·61	−21·61	54·15	84·02	−29·87	5·63	Rangpur.
221	9	38	27	52	6	1	1	10	1·6	...	...	82	−4	·670	−·016	4·3	+0·5	85	99·26	−14·26	86·24	123·20	−36·96	4·55	Jalpaiguri (*c*).
317	1	26	74	39	3	2	4	...	1·6	...	...	85	...	·081	...	4·5	...	100	100·59	−0·59	126·46	128·63	−2·17	7·81	Cooch Behar.
																									III—Bengal.
2	83	49	20	18	83	70	15	17	13·4	11·7	+1·7	85	−1	·810	−·023	4·8	−0·9	70	81·96	−11·96	47·71	72·23	−24·52	5·27	Saugor Island (*d*).
26	120	30	5	21	130	15	2	14	8·4	...	...	71	...	·662	...	3·3	...	73	78·22	−0·22	58·27	61·26	−2·99	5·08	Midnapore.
45	29	21	39	45	38	82	9	58	4·9	4·4	+0·5	82	−1	·761	−·007	4·5	+0·3	88	85·54	+2·46	80·77	59·55	+21·22	11·95	Calcutta.
227	9	4	11	54	37	11	4	8	1·2	3·0	−1·9	81	−5	·756	−·035	4·4	+0·3	83	88·45	−5·45	55·16	64·02	−8·86	7·30	Jessore (*c*).
176	8	6	35	41	50	16	17	17	2·6	...	...	84	...	·725	...	3·6	...	73	74·20	−1·20	54·51	55·12	−0·61	4·35	Krishnagar.
116	47	16	28	15	35	47*	30	32	2·6	3·1	−0·5	77	+1	·702	−·003	4·5	0	71	77·88	−6·88	65·47	57·06	+8·41	7·45	Burdwan.
358	5	2	14	23	17	10	27	7	2·2	...	...	69	...	·029	...	2·4	...	70	77·37	−7·37	53·36	56·43	−3·07	4·63	Bankura.
168	9	8	33	35	6	14	34	55	2·1	...	...	76	...	·059	...	3·6	...	68	72·95	−4·95	46·30	56·13	−9·74	2·57	Raniganj.
92	23	9	57	40	61	50	11	23	3·5	3·2	+0·3	77	−8	·677	−·066	4·5	−0·2	65	77·22	−12·22	51·54	55·13	−3·59	6·08	Berhampore.
273	7	5	36	19	12	2	6	6	(*b*) 2·2	...	...	68	...	·014	...	2·6	...	69	79·60	−10·60	47·00	58·65	−11·65	3·93	Naya Dumka.
39	56	23	7	4	36	109	16	76	3·3	4·8	−1·5	76	−7	·009	−·078	4·1	−0·8	62	81·72	−19·12	45·26	64·68	−19·42	3·35	Balasore.
46	37	8	5	7	33	101	53	77	7·9	9·3	−1·4	83	−2	·787	−·039	5·4	+0·2	65	73·74	−8·74	54·62	65·69	−10·77	3·68	False Point.
165	7	16	21	10	29	61	45	12	2·6	2·8	−0·2	80	+2	·737	−·002	4·0	−0·3	73	75·81	−2·81	67·90	59·70	+8·20	8·06	Cuttack.
25	120	19	2	2	25	137	12	14	12·3	...	...	81	...	·720	...	4·3	...	59	62·68	−4·68	53·98	58·14	−4·16	5·30	Puri (*c*).
25	25	21	20	42	11	8	59	155	6·1	...	...	75	...	·064	...	3·5	...	73	...	...	47·44	...	...	4·20	Angul.
1	34	56	90	51	35	106	25	18	4·5	3·6	+0·9	67	−4	·629	−·030	4·1	+0·2	79	72·00	+7·00	78·10	67·39	+10·71	3·62	Sambalpur.
76	4	16	21	16	25	150	52	6	3·1	1·8	+1·3	74	0	·001	−·057	3·6	0	74	75·30	−1·30	49·64	51·29	−1·65	3·52	Chaibassa.
50	24	13	25	15	33	42	79	85	6·9	6·3	+0·6	61	−6	·483	−·055	3·7	+0·2	76	81·49	−5·49	55·20	55·79	−0·59	2·80	Ranchi.
42	14	28	28	21	21	24	126	42	3·6	...	...	(*b*) 79	...	(*b*) ·040	...	3·6	...	74	75·91	−1·91	52·59	52·71	−0·12	3·60	Purulia (*c*).
35	25	11	24	22	58	66	59	66	6·7	7·3	−0·6	59	−6	·495	−·026	3·5	−0·8	63	75·70	−12·70	47·35	53·39	−6·04	4·53	Hazaribagh.
267	11	5	43	11	7	12	6	5	3·6	...	...	71	...	·572	...	3·0	...	57	62·52	−5·52	36·91	44·53	−7·62	3·05	Daltonganj.
214	...	65	48	3	...	14	6	15	2·3	3·1	−0·8	87	+3	·604	−·025	3·4	−0·2	44	70·51	−26·51	27·23	64·88	−37·66	2·75	Purnea (*c*).
157	1	45	48	23	21	20	38	4	3·0	...	...	67	...	·043	...	3·2	...	38	60·81	−22·81	18·13	49·36	−31·23	1·63	Bhagalpur.
30	4	12	12	46	4	45	91	22	6·1	...	...	75	...	·693	...	3·3	...	44	...	...	24·55	...	...	2·26	Monghyr.
143	3	23	137	7	5	9	34	5	3·1	4·0	−0·9	80	+1	·662	−·019	2·9	0	38	58·35	−20·35	33·10	51·07	−17·97	3·83	Darbhanga.
140	23	37	129	12	11	6	24	3	(*h*) 1·6	...	...	74	...	·636	...	2·7	...	35	...	...	21·97	...	...	2·74	Pusa.
125	1	12	84	73	2	13	28	25	4·2*	...	...	72	...	·624	...	1·7	...	38	55·97	−17·97	23·01	45·63	−22·62	2·66	Muzaffarpur (*f*).
137	2	59	95	10	2	15	27	12	3·5	...	...	81	...	·635	...	3·5	...	35	55·74	−20·74	21·42	51·66	−30·23	2·86	Motihari.
94	10	66	49	30	23	55	19	20	2·6	...	...	75	...	·644	...	2·6	...	23	53·29	−24·29	19·66	40·89	−21·23	2·29	Chapra.
25	5	12	91	52	54	78	39	9	5·8	3·7	+2·1	67	−5	·632	−·021	2·6	−1·0	35	55·35	−20·35	26·00	43·04	−23·04	11·16	Patna (*c*).
115	4	59	25	35	16	60	44	8	2·5	...	...	69	...	·605	...	2·5	...	40	55·93	−15·93	30·72	46·04	−15·32	6·17	Arrah.
35	4	14	121	20	19	90	56	7	5·2	...	...	65	...	·574	...	2·8	...	40	54·74	−14·74	34·25	41·55	−7·30	4·37	Buxar.

* Uncorrected for scale error.
(*b*) mean of 11 months.
(*c*) wind observations 1 less.
(*d*) " " 6 "
(*e*) " " 20 "
(*h*) Mean of 2 months.
(*f*) wind observations 3 less.

Table

(2) Abstract of observations taken at 8 hrs. at

Number of sub-division.	Station.	Elevation of bar. cistern above sea-level, in feet.	Pressure, 8 hrs., in inches.							Temperature of air.										
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to constant gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	III.—Bengal—concld.																				
9	Dehri	351	29·470	...	29·783	29·867	29·123	·764	·245	74·7	91·1	...	69·6	...	80·4	...	21·5	114·3	43·0	71·3	34·8
	Gaya	375	29·449	—·014	29·756	29·866	29·102	·764	·246	74·4	90·7	+0·7	68·6	—0·2	79·7	+0·3	22·1	113·9	42·2	71·7	36·7
	IV.—United Provinces of Agra and Oudh.																				
10	Gorakhpur	257	29·567	—·002	29·767	29·880	29·179	·801	·240	73·6	89·6	+1·6	65·9	—1·4	77·8	+0·1	23·6	112·6	37·0	75·6	36·5
	Benares	267	29·551	—·004	29·763	29·873	29·175	·798	·253	74·7	90·9	+1·3	65·9	—1·1	78·4	+0·1	25·0	113·6	39·1	74·5	38·9
	Allahabad	309	29·510	—·013	29·780	29·923	29·121	·802	·267	74·1	91·3	+1·6	66·7	—0·2	79·3	+0·7	25·2	116·6	39·0	76·6	39·0
	Cawnpore	416	29·403	—·001	29·788	29·918	29·008	·910	·276	72·9	91·8	+1·8	65·6	—0·8	78·7	+0·5	26·2	115·9	37·2	78·7	40·3
	Lucknow	368	29·461	+·006	29·796	29·866	29·051	·815	·271	72·3	90·8	+1·1	65·3	—0·3	78·1	+0·4	25·5	115·0	37·6	77·4	39·9
	Bahraich	401	29·416	—·002	29·788	29·899	29·015	·794	·262	72·7	90·4	+2·2	66·0	+0·3	78·3	+1·3	24·3	113·1	38·0	75·1	39·2
11	Jhansi	324	29·018	—·021	29·802	29·417	28·624	·793	·288	77·8	91·6	+0·4	70·4	+1·4	81·1	+0·9	21·2	116·3	41·1	75·2	36·7
	Agra	556	29·263 (d)	—·009 (d)	29·798 (d)	29·674	28·866	·808	·305 (d)	72·7 *	89·3 *	—1·0 *	57·5 (a)	—0·2 (a)	73·6 (a)	—0·6 (a)	22·3 (a)	114·5 *	38·0 *	76·5 *	37·3 (a)
	Mainpuri	516	29·319	+·001	29·816	29·710	28·904	·806	·293	70·5	89·3	+1·9	60·9	+0·5	74·8	+1·4	25·9	116·3	38·3	78·0	44·8
	Bareilly	568	29·236	—·008	29·784	29·637	28·854	·773	·270	70·6	89·8	+1·3	64·5	—0·3	76·7	+0·5	24·4	113·8	37·5	76·3	38·1
	Meerut	733	29·066	— ·08	29·789	29·488	28·680	·799	·292	69·9	88·7	+0·9	63·1	—0·6	75·8	+0·2	25·6	113·1	38·8	74·3	39·9
	Roorkee	886	28·915	+·005	29·808	29·395	28·544	·701	·291	68·5	86·9	+0·2	61·9	—0·9	74·4	—0·6	25·2	114·5	34·4	80·1	39·9
	Dehra Dun	2,233	27·590	—·006	29·816	27·919	27·256	·664	·223	66·2	83·3	+2·2	50·2	—0·2	72·1	+1·0	22·5	108·0	37·5	70·5	37·6
	V.—Punjab.																				
12	Delhi	718	29·103 (b)	+·005 (b)	29·803 (b)	29·409	28·731	·768	·297 (b)	72·3	89·5	+0·4	63·0	+0·6	73·8	+0·5	21·4	115·2	37·2	78·0	38·2
	Sirsa	662	29·193	+·006	29·831	29·588	28·785	·803	·334	70·9	90·3	+1·6	63·4	—0·7	76·8	—1·1	26·9	115·3	34·6	80·7	45·7
	Patiala	828	29·001	...	29·807	29·424	28·612	·812	·322	71·3	87·9	...	62·6	...	75·3	...	25·3	112·8	30·6	82·2	42·8
	Ambala	892	28·913	+·007	29·707	29·310	28·535	·775	·299	69·2	88·0	+0·1	62·5	—0·6	75·1	—0·3	25·6	112·5	35·0	77·5	41·0
	Ludhiana	812	28·996	+·004	29·801	29·425	28·577	·848	·340	69·7	87·9	+0·5	64·2	+0·5	76·1	0	23·6	115·5	38·5	77·0	39·8
	Lahore	702	29·102	0	29·797	29·538	28·656	·882	·357	68·6	88·8	+1·9	62·6	+1·6	75·7	—0·1	26·2	116·9	36·2	80·7	43·7
	Sialkot	830	28·978	+·008	29·804	29·390	28·536	·854	·363	69·9	87·1	—0·6	62·3	—0·3	74·7	—0·5	24·9	115·2	35·1	80·1	42·6
	Rawalpindi	1,674	28·142	—·002	29·839	28·526	27·694	·832	·363	65·9	85·2	—1·1	58·4	+0·7	70·8	—0·2	24·8	114·9	31·9	83·0	41·8
13	Khushab	613	29·211	+·017	29·810	29·651	28·717	·934	·380	72·4	88·8	—0·6	64·5	+0·8	76·7	0	24·3	116·9	34·9	82·0	44·4
	Montgomery	553	29·245	—·001	29·784	29·397	28·786	·911	·372	72·7	90·2	—2·1	63·1	—1·3	76·7	—1·7	27·1	115·4	33·6	81·8	45·6
	Multan	420	29·396	+·001	29·792	29·857	28·605	·962	·381	72·4	90·6	—1·2	69·1	+0·8	78·5	—0·1	24·6	117·8	37·5	80·3	42·1
	VI.—North-West Frontier Province.																				
15	Peshawar	1,110	28·722	—·011	29·849	29·153	28·238	·925	·361	67·2	83·7	—2·0	60·0 (b)	+0·8 (b)	71·9 (b)	—0·6 (b)	23·7 (b)	112·2	32·9	65·3	41·3 (b)
	Dera Ismail Khan	590	29·243	+·003	29·803	29·702	28·694	1·008	·397	69·7	88·0	—2·4	50·6	+0·1	73·8	—1·1	26·3	116·8	33·6	83·2	42·7
	VII.—Sind.																				
17	Jacobabad	186	29·630	—·001	29·783	30·094	29·146	·948	·350	73·6	95·2	—0·5	65·9	+0·7	80·5	+0·1	29·3	117·1	33·3	83·8	46·6
	Hyderabad	86	29·741	—·001	29·793	30·171	29·300	·871	·329	73·9	93·5	0	67·3	—1·0	80·4	—0·5	26·1	118·1	40·5	77·6	43·8
	Kurrachee	13	29·868	+·024	29·840	30·245	29·417	·828	·294	74·4	85·6	+0·2	69·9	—0·2	77·9	0	15·9	106·9	44·7	62·2	31·7

N.B.—Elevations in *italics* indicate barometrical determinations.

NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(*b*) mean of 15 months. * mean of 10 months.
(*d*) mean of 8 months.
(*a*) mean of 8 months.

B—*contd.*

243 stations in India, etc., in the year 1908.

Wind direction. Number of winds from									Wind velocity.			Hygrometry, 8 hrs.			Cloud.		Rainfall.						Heaviest rainfall during year.	Station.
Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Mean velocity in miles per hour.	Normal.	Departure from normal.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour-tension at 8 hrs. in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.		
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									III.—Bengal—*contd.*
20	2	10	56	32	30	164	43	9	5·0	...	....	64	..	·599	...	4·8	...	34	45·34	—21·34	22·35	43·20	—20·85	2·26	Dehri.
105	12	59	15	28	34	39	70	6	3·3	3·7	—0·4	68	—3	·616	—·021	2·9	—0·8	43	57·38	—14·38	23·15	47·00	—23·85	3·17	Gaya.
																									IV.—United Provinces of Agra and Oudh.
229	5	50	14	15	...	12	18	28	(b) 1·5	2·3	—0·8	69	—6	·610	—·032	2·4	—0·3	42	54·10	—12·10	29·11	52·01	—22·90	4·53	Gorakhpur.
121	7	13	62	19	11	79	42	13	2·9	3·7	—0·8	66	—8	·593	—·032	2·6	—0·8	47	50·90	—3·90	28·49	40·99	—12·50	2·84	Benares.
77	5	28	52	12	10	34	127	21	3·8	5·1	—1·3	58	—9	·509	—·064	3·0	—0·5	48	45·30	+2·70	33·02	40·73	— 8·81	4·44	Allahabad.
136	13	14	48	12	7	28	90	19	2·6	3·7	—1·1	61	—6	·518	—·070	1·2	—1·7	41	43·00	—2·00	33·95	35·94	— 1·99	3·67	Cawnpore.
198	4	12	44	35	8	22	22	21	2·0	3·0	—1·0	63	—7	·535	—·057	2·3	—1·0	44	51·00	—7·00	36·43	38·89	— 2·46	6·15	Lucknow.
135	10	5	73	63	3	13	15	47	2·9	3·1	—0·2	(c) 71	—4	(b) ·624	—·017	2·6	—0·2	34	50·40	—16·40	26·18	48·91	—22·73	6·68	Bahraich (*d*).
102	12	15	6	19	13	86	49	64	5·1	3·3	+1·8	51	—4	·499	—·014	1·9	—0·5	55	43·90	+11·10	46·81	38·51	+8·30	3·75	Jhansi.
78	1	40	6	45	2	119	4	71	4·6	4·5	+0·1	60	—1	·525	—·008	2·7	—0·1	41	35·30	+5·70	35·15	28·42	+6·73	3·67	Agra.
41	16	15	39	26	16	31	57	38	*2·9	*1·8	*+1·1	*63	—3	*·525	—·029	*2·2	—1·1	33	38·10	—5·10	25·15	31·76	—6·61	2·70	Mainpari. (*c*).
232	8	14	51	5	1	6	42	17	2·6	2·8	—0·2	69	—3	·561	—·012	2·8	—0·2	45	47·17	—2·17	40·18	47·86	—7·68	6·60	Bareilly.
231	6	4	19	19	...	21	53	18	1·2	2·1	—0·9	69	0	·516	+·000	2·0	—1·0	45	37·00	+8·00	36·91	32·07	+4·84	3·56	Meerut.
232	...	5	3	75	2	2	...	46	2·8	2·5	+0·3	68	—3	·492	—·031	2·2	—0·9	42	49·10	—7·10	38·49	43·22	—4·73	6·49	Roorkee. (*c*).
364	...	...	1	...	1	...	...	...	1·4	1·5	—0·1	64	—6	·445	—·033	3·3	—0·7	67	80·90	—13·90	75·56	89·19	—13·63	9·43	Debra Dun.
																									V—Punjab.
26	9	9	25	53	8	32	168	36	4·8	3·5	+1·3	59	+1	·589	—·001	2·6	—0·8	42	37·10	+4·90	40·27	28·09	+12·18	5·55	Delhi.
123	24	18	45	23	21	53	43	17	3·6	4·8	—1·2	61	+2	·499	+·002	2·4	—0·9	36	23·40	+12·60	22·56	14·43	+8·13	2·20	Sirsa.
48	51	11	50	31	16	1	31	76	(d) 5·4	...	...	58	...	·517	...	2·2	...	32	...	...	19·87	...	...	2·17	Patiala. (*c*).
156	2	2	15	84	3	2	7	95	3·3	2·0	+1·3	66	—3	·504	—·053	2·8	+0·1	37	36·90	+0·10	20·84	32·96	—12·12	5·20	Ambala.
163	4	41	3	71	1	14	14	55	2·0	1·9	+0·1	62	—4	·477	—·039	2·5	—1·1	40	33·70	+7·30	27·26	28·67	—1·41	3·95	Ludhiana.
142	53	13	35	56	24	6	32	33	2·7	2·4	+0·3	69	+4	·517	+·014	2·5	—0·2	38	23·90	+15·10	33·39	20·10	+13·29	4·20	Lahore.
140	44	50	57	23	13	3	16	20	2·0	2·0	0	64	—2	·485	—·025	2·3	—0·2	51	40·70	+10·30	43·86	31·75	+12·21	4·62	Sialkot.
242	38	29	4	6	4	3	16	19	2·9	2·1	+0·8	65	—3	·428	—·032	3·8	+0·6	61	47·30	+13·70	55·06	33·98	+21·08	5·80	Rawalpindi.
81	25	119	48	12	19	30	21	11	5·8	5·0	+0·8	53	+3	·490	+·042	2·0	—0·2	32	18·00	+14·00	26·95	14·12	+12·83	2·70	Khushab.
60	24	39	56	56	48	38	19	26	5·9	5·9	0	51	—4	·428	—·047	1·9	—0·3	28	16·10	+11·90	26·09	10·25	+16·44	5·86	Montgomery.
208	49	33	2	29	7	25	...	8	1·4	2·1	—0·7	61	+1	·516	+·001	1·5	—0·2	17	12·40	+4·60	10·09	7·30	+2·79	3·12	Multan.
																									VI.—North-West Frontier Province.
236	26	10	10	10	11	14	29	29	1·9	3·3	—1·4	64	+1	·455	0	3·3	+0·3	41	23·90	+17·20	21·01	13·09	+7·92	1·91	Peshawar.
168	23	78	4	31	5	5	8	41	2·3	1·8	+0·5	65	+1	·515	—·001	1·9	—0·1	18	17·60	+0·40	18·46	8·53	+9·93	3·02	Dera Ismail Khan (*f*).
																									VII.—Sind.
94	59	45	8	39	30	6	2	83	4·0	3·4	+0·6	61	+6	·566	+·058	1·9	—0·1	8	8·20	—0·20	4·59	3·78	+0·81	1·28	Jacobabad.
61	42	17	2	4	43	160	15	29	7·1	11·1	—4·0	63	+5	·569	+·040	2·2	—0·5	13	9·70	+3·30	19·93	6·90	+13·03	6·20	Hyderabad (*f*).
29	31	64	11	...	1	29	142	59	9·9	12·6	—2·7	·72	—4	·679	+·001	3·8	+0·2	7	9·30	—2·30	6·46	8·26	—1·80	2·40	Kurrachee.

(b) Mean of 11 months.
(c) Wind observations 85 less.
(c) ,, ,, 1 ,,
(f) ,, ,, 3 ,,
(d) ,, ,, 2 ,,

* Mean of 10 months.

TABLE

(2) *Abstract of observations taken at 8 hrs. at*

Number of sub-division.	Station.	Elevation of bar. cistern above sea level, in feet.	Pressure, 8 hrs., in inches.						Temperature of Air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea level and to correct. gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	VIII.—Rajputana.																				
18	Bikaner	771	29·043	−·002 (h)	29·799	29·473	28·653	·820	·338	72·9	91·0	−0·9 (h)	67·7	−1·7 (h)	79·5	−1·3 (h)	23·3	114·1	38·0	76·1	41·6
	Jodhpur	783	29·078	+·016	29·853	29·453	28·684	·769	·303	72·3	91·2	−2·6	66·2	−3·5	78·7	−3·0	25·0	111·6	36·3	75·3	42·8
	Pachpadra	380	29·417	−·042	29·764	29·15 5	29·034	·731	·250	71·4	93·1	−2·3	62·6	−2·2	77·3	−2·3	29·5	112·5	31·6	80·9	47·5
19	Jaipur	1,431	28·416	0	29·834	28·603	28·026	·777	·302	73·3	90·4	−0·5	65·1	−0·5	77·8	−0·5	25·3	112·7	37·1	75·6	42·3
	Sambhar	1,254	28·587	+·009	29·836	28·971	28·217	·754	·305	70·3	89·7	−0·3	63·8	−1·4	76·8	−0·9	25·9	111·4	34·5	76·9	43·2
	Ajmer	1,611	28·253	+·002	29·857	28·623	27·889	·734	·293	69·8	87·6	−1·4	66·3	+2·0?	76·0	+0·3?	21·3	109·4	30·2	70·2	39·7
	Kotah	819?	29·007	−·07 (h)	29·839	29·410	28·610	·800	·301	75·6	91·3	−1·4 (h)	69·2	−1·0 (h)	80·3	−1·2 (h)	22·1	113·0	44·1	68·9	37·6
	Udaipur	1,925	27·951	−·001	29·856	28·295	27·593	·697	·268	72·3	87·8	−1·6 (h)	63·6	−2·2 (h)	75·7	−1·9 (h)	24·2	106·5	36·3	70·2	39·6
	IX.—Bombay.																				
20	Deesa	466	29·403	+·002	29·834	29·744	29·042	·702	·263	73·4	93·4	−0·4	65·4	−1·7	79·4	−1·0	28·0	111·3	40·4	70·9	43·7
	Bhuj	395	29·485	+·016	29·840	29·526	29·093	·733	·270	74·0	89·7	−1·7	67·1	−1·6	78·6	−1·7	22·6	103·6	42·0	66·6	37·7
	Jamnagar	61	29·931	...	29·837	30·146	29·443	·703	·250	75·8	86·8	...	67·7	...	76·8	...	18 0	101·9	39·6	62·3	33·1
	Dwarka	37?	29·863	...	29·847	30·178	29·448	·730	·206	76·8	83·6	...	71·9	...	77·9	...	11·8	98·3	50·7	47·6	28·5
	Rajkot	429	29·467?	+·020?	29·855?	29·770	29·093	·678	·251	74·7	92·2	−0·9	65·1	−1·0	78·7	−1·0	27·1	108·0	38·0	70·0	41·7
	Veraval	18	29·879	+·009	29·839	30·142	29·501	·641	·242	75·3	84·4	−0·7	70·5	−0·5	77·5	−0·6	13·9	99·2	50·3	48·9	25·9
	Bhavnagar Para.	55	29·840	−·016	29·839	30·144	29·474	·670	·248	74·8	93·4	+0·5	68·0	−2·2?	80·6	−0·8?	25·4	111·2	40·5	70·7	30·5
	Surat	39	29·851	−·002	29·838	30·133	29·496	·637	·233	75·5	90·6	−1·0	69·8	+0·4	80·2	−0·3	20·8	109·6	49·6	60·0	33·3
	Ahmedabad	163	29·725	+·007	29·840	30·044	29·376	·669	·258	74·7	93·7	−0·4	69·7	−1·1	81·8	−0·7	24·0	111 1	49·1	62·0	38·0
26	Bombay	37	29·873	−·001	29·850	30·111	29·530	·581	·210	77·4	86·0	+0·2	74·7	−0·2	80·4	0	11·3	100·0	60·5	39·5	19·4
	Ratnagiri	110	29·800	+·006	29·850	30·021	29·575	·446	·187	78·5	88·9	−0·5	72·6	−0·5	70·8	−0·5	14·4	98·3	58·9	39·4	21·0
	Goa	199	29·709	−·020?	29·849	29·925	29·503	·422	·185	77·7	83·5	−2·5	75·1	+0·6	79·3	−1·0	8·4	89·0	64·0	25·0	15·5
	Mormugao	60	29·863	+·003	29·858	30,072	29·664	·408	·176	78·1	85·5	−0·7	74·0	−1·0	79·8	−0·3	11·4	93·5	64·7	29·8	18·0
	Karwar	44	29·884	+·005	29·863	30·003	29·697	·306	·167	75·1	86·1	−0·2	71·4 (d)	−0·7 (d)	79·4 (d)	−0·4 (d)	16·8 (d)	93·3	59·5	33·8	24·7 (d)
27	Malegaon	1,430	28·459	+·002	29·864	28·740	28·140	·600	·226	73·8	92·5	+1·0	64·1	−1·1	78·4	−0·1	28·4	109·4	42·1	67·3	41·7
	Ahmednagar	2,154	27·764	+·012	29·882	28·017	27·485	·532	·196	73·5	89·8	+0 9	64·1	+0·6	76·9	+0·8	25·7	107·4	43·0	64·4	37·9
	Poona	1,846	28·062	0	29·885	28·310	27·772	·538	·199	71·2	89·6	−0·4	63·0	−1·9	76·0	−1·1	26·9	109·0	42·8	66·2	35·8
	Sholapur	1,520	28·303	−·006	29·868	28·561	28·050	·511	·194	75·6	92·7	−0·3	68·3	+0·3	80·5	0	24·5	109·8	48·9	60·9	34·5
	Bijapur	1,948	27·955	0	29·863	28·185	27·727	·458	·186	74·4	91·2	+1·3	67·1	−0·4	79·2	+0·5	24·1	107·2	48·2	59·0	34·2
	Belgaum	2,539	27·376	+·004	29·867	27·574	27·177	·397	·174	71 4	84·7	+0·3	63·3	−0·7	74·0	−0·2	21·4	102·3	46·6	55·7	30·7
	X.—Central India.																				
21	Neemuch	1,624	28·243	+·005	29·855	28·598	27·884	·714	·267	71·6	88·2	−0·7	63·6	−0·9	76·0	−0·8	24·6	108·0	37·8	70·2	39·2
	Indore	1,823	28·069?	+·026?	29·871?	28·372	27·751	·621	·242	72·6	88·1	0	63·2	−0·5	75·6	−0·2	24·9	109·6	39·1	70·5	38·0
22	Nowgong	754	29·078	−·005	29·512	29·486	28·708	·777	·284	72·2	89·6	−0·1	65·4	−0·2	77·5	−0·1	24·1	114·0	39·0	75·0	38·4
	Sutna	1,040	28·727	−·013	·9·799	29·167	28·420	·747	·260	73·3	89·4	+1·3	66·7	+1·1	78·0	+1·2	22·7	112·0	39·7	72·3	37·3
	XI.—Central Provinces.																				
23	Buldana	2,132	27·769	...	29·858	28·035	27·472	·563	·212	74·7	87·5	...	67·6	...	77·6	...	19·9	106·1	50·4	55·7	31·5
	Akola	930	28·944	+·002	29·841	29·271	28·630	·641	·233	74·4	93·1	+0·2	66·3	−0·9	79·7	−0·4	26·8	112·7	41·6	71·1	40·1
	Amraóti	1,215	28·655	+·008	29·838	29·275	28·311	·664	·235	75·6	91·7	−0·4	68·5	−0·4	80·1	−0·4	23·2	111·8	48·3	63·5	35·1

N. B.—Elevations in italics indicate barometrical determinations.

NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(d) mean of 9 months.
(h) mean of 3 months.

B.—*contd.*

243 stations in India, etc., in the year 1908.

Wind direction. Number of winds from									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.							Station.
Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Mean velocity in miles per hour.	Normal.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									VIII-Rajputana
43	9	17	18	37	59	106	63	14	6·1	5·9	+0·2	54	+1	·474	—·025	2·2	—0·4	32	19·80	+13·20	18·02	11·29	+6·73	2·15	Bikaner.
64	36	35	14	15	35	107	38	18	4·7	...	...	53	+5	·405	...	(b) 3·2	...	30	20·30	+9·70	33·47	13·14	+20·33	7·48	Jodhpur.
193	11	3	9	7	42	68	22	5	5·2	7·0	—1·8	61	—1	·521	—·029	(b) 0·2	—3·2	30	19·10	+10·90	22·20	13·30	+8·90	2·92	Pachpadra.
73	63	47	34	13	3	10	40	83	4·4	4·4	0	52	—6	·451	—·043	2·8	—0·6	48	37·80	+10·20	36·55	26·05	+10·50	3·10	Jaipur.
165	34	19	16	7	6	5	90	34	5·5	6·4	—0·9	61	+4	·489	+·009	2·5	—0·4	37	31·30	+5·70	21·07	20·74	+1·23	2·94	Sambhar.
174	6	13	...	11	6	41	99	46	6·3	5·0*	+1·3	65	+2	·509	+·007	3·0	+0·3	42	33·00	+9·40	36·22	21·50	+14·42	4·25	Ajmer.
217	13	5	...	6	2	27	65	40	2·6	...	...	51	+2	·467	...	2·3	...	44	37·60	+6·40	40·22	26·33	+13·89	6·04	Kotah (c).
172	14	4	5	4	12	47	71	35	4·3	...	...	59	+3	·498	...	2·5	...	37	34·10	+2·90	24·38	21·35	+3·02	2·46	Udaipur (g).
																									IX.—Bombay.
69	26	59	32	11	38	80	37	13	8·5	10·2	—1·7	58	+2	·523	—·001	3·1	—0·3	40	28·81	+11·19	37·82	24·12	+13·70	9·93	Deesa (c).
51	14	9	9	10	5	73	100	95	9·7	11·1	—1·4	70	+6	·611	0	3·2	+0·3	20	16·10	+3·90	11·54	14·52	—2·98	2·63	Bhuj.
37	5	25	58	9	16	109	81	28	(b) 14·0	...	...	66	...	·629	...	1·4	...	29	...	...	21·14	...		5·59	Jamnagar.
21	50	29	6	1	25	93	76	60	12·7	...	...0	76	...	·732	...	3·0	...	20	...	...	13·46	...	...	3·00	Dwarka.
38	29	24	33	19	8	118	58	43	9·0	9·1	—0·1	60	—7	·551	—·073	2·4	—0·6	37	30·00	+6·10	18·23	28·13	—9·90	3·20	Rajkot (c).
51	88	40	3	1	4	53	77	49	11·1	8·4	+2·7	73	+3	·674	+·008	2·6	—1·3	33	29·20	+3·80	24·28	18·24	+4·04	3·65	Voraval.
16	31	9	1	3	5	123	51	127	(b) 5·7	10·1	—4·4	63	—6	·588	—·071	3·4	+0·1	35	34·70	+0·30	23·05	19·76	+3·29	2·14	Bhavnagar Para.
45	54	23	42	14	69	51	42	32	5·0	7·6	—1·7	67	—4	·638	—·042?	2·5	—0·9	48	47·40	+0·60	47·46	44·03	+3·42	11·04	Surat.
11	30	80	27	12	14	98	14	78	5·4	5·0	+0·4	59	—1	·548	—·034	3·1	—0·5	48	37·20	+10·80	32·91	33·24	—0·33	2·12	Ahmedabad (g).
2	34	82	71	25	17	36	75	24	10·1	11·8	—1·7	77	—1	·749	—·022	4·3	+0·1	74	75·60	—1·60	53·74	75·21	—21·87	5·00	Bombay.
65	50	34	69	26	18	44	34	22	10·0	(a) 8·5	(a) +1·5	70	—2	·696	—·031	3·4	—0·5	90	93·80	—3·80	85·54	107·35	—21·81	6·78	Ratnagiri (i).
18	29	72	103	10	24	27	58	27	8·6	6·7	+1·9	79	+1	·759	—·019	5·1	+0·9	88	...	...	112·03	99·43	+13·60	5·80	Goa.
89	61	56	62	14	9	31	49	22	9·6	5·2	—0·6	83	0	·801	—·014	4·9	+1·1	89	...	...	108·75	93·43	+15·32	5·01	Mormugao (i).
198	52	35	1	2	28	29	1	20	4·5	4·2	+0·3	83	0	·738	—·003	3·9	+0·1	91	105·50	—14·50	138·66	123·78	+14·88	5·64	Karwar.
182	9	2	2	3	1	37	91	34	7·8	8·9	—1·1	47	—16?	·425	—·140?	2·0	—1·5	27	34·90	—7·90	12·78	24·08	—11·30	1·56	Malegaon.
63	33	4	8	16	21	51	38	152	9·4	11·4	—2·0	48	—19?	·410	—·154?	2·9	—0·4	28	39·60	—11·60	17·23	22·42	—5·19	2·07	Ahmednagar.
176	5	2	11	8	...	6	122	35	9·3	10·5	—1·2	61	—2	·434	—·023	3·9	0	41	49·60	—5·60	21·18	27·89	—6·71	1·86	Poona (c).
15	29	36	37	49	8	55	34	103	11·0	9·8	+1·2	56	+1	·501	—·002	4·0	0	38	42·00	—4·00	25·44	30·98	—5·54	3·41	Sholapur.
27	15	29	20	41	14	73	77	76	8·8	6·4	+2·4	60	—10	·511	—·092?	3·0	—0·9	24	42·40	—18·40	15·01	24·58	—9·57	2·27	Bijapur.
165	15	17	33	15	3	34	75	19	11·6	15·1	—3·5	68	—2	·520	—·017	4·3	0	84	83·30	+0·70	56·73	50·13	+6·60	5·34	Belgaum.
																									X.—Central India.
40	77	39	9	5	5	72	88	31	7·5	8·7	—1·2	55	—3	·460	—·042	2·2	—0·4	34	37·40	—3·40	25·42	30·08	—4·66	3·27	Neemuch.
98	21	44	19	17	6	18	103	40	5·0	4·1	+0·9	59	—4	·513	—·010	2·5	—0·9	43	45·30	—2·30	24·75	33·64	—8·89	3·54	Indore.
71	11	8	23	8	50	64	122	16	2·5	2·6	—0·1	64	—2	·547	+·002	3·2	0	52	50·70	+1·30	47·25	44·96	+2·29	4·50	Nowgong.
96	2	7	25	3	3	39	116	70	3·4	6·0	—2·6	60	—1	·518	+·004	5·0	+2·1	63	54·60	+8·40	48·67	45·88	+2·79	5·25	Sutna.
																									XI.—Central Provinces.
5	21	7	33	48	24	32	111	85	7·3	7·8	—0·5	47	...	·408	...	3·3	...	49	...	...	33·60	36·29	—2·69	3·39	Buldana.
41	4	15	35	39	15	42	105	70	6·3	6·0	+0·3	52	—6	·472	—·041	3·8	+0·4	49	45·10	+3·90	34·34	34·16	+0·18	2·54	Akola.
11	19	74	67	6	10	70	84	25	7·0	5·7	+1·3	51	—8	·474	—·063	3·4	—0·1	45	46·80	—1·80	31·36	34·63	—3·27	2·21	Amraoti.

(a) Mean of 8 months.
(b) Mean of 11 months.
(c) Wind observations 1 less.
(g) " " 2 "
(i) " " 15 "
(d) " " 4 "

Table

(2) Abstract of observations taken at 8 hours at

Number of sub-division.	Station.	Elevation of bar. cistern above sea-level, in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs., temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Central Provinces—*concld.*																				
24	Khandwa	1,044	28·626	+·004	29·852	29·142	28·494	·648	·249	74·4	92·3	+0·5	56·5	−0·8	79·2	−0·1	35·2	110·7	38·1	72·6	40·1
	Hoshangabad	1,006	28·667	+·006	29·855	29·226	28·518	·708	·252	72·3	90·6	+0·2	55·1	−1·7	77·9	−0·8	25·5	112·6	39·4	73·2	39·5
	Saugor	1,807	28·043	+·001	29·824	29·399	27·716	·683	·256	73·9	87·9	−0·2	57·2	+1·1	77·6	+0·5	20·7	110·1	35·0	75·1	35·1
	Jubbulpore	1,327	28·517	0	29·831	29·366	28·162	·704	·252	76·4	88·7	+0·3	63·5	−0·7	76·3	−0·2	24·9	111·0	36·3	74·7	33·7
	Seoni	2,033	27·634	+·005	29·839	29·147	27·454	·693	·243	72·6	88·4	+0·7	(b) 61·2	(b) −2·42	(b) 74·0	(b) −0·92	(b) 25·6	110·3	30·9	70·9	(b) 37·9
	Nagpur	1,017	28·839	+·004	29·522	29·175	28·481	·695	·249	74·3	91·9	−0·1	57·9	−1·0	79·9	−0·6	24·1	113·6	44·1	69·5	37·4
25	Pendra	3,123	27·813	...	29·811	29·158	27·446	·712	·246	73·3	86·1	...	65·3	...	75·7	...	20·8	108·8	39·2	69·6	33·8
	Raipur	970	28·578	+·003	29·817	29·222	28·511	·711	·247	73·4	89·7	−0·8	56·6	−2·6	75·2	−1·7	23·1	112·7	41·4	71·3	35·3
	Chanda	634	29·227	−·002	29·815	29·552	28·900	·662	·245	76·0	92·0	−0·9	62·7	−0·9	79·9	−0·9	24·4	114·0	40·0	74·0	37·7
	XII.—Hyderabad.																				
28	Aurangabad	1,905	28·012	(h) −·013	29·880	29·273	27·752	·521	·190	75·4	90·4	(h) −0·7	65·4	(h) −1·5	77·9	(h) −1·1	25·1	108·2	44·2	64·0	39·3
	Nizamabad	1,200	28·628	(h) +·389	29·852	29·017	28·354	·663	·208	76·9	92·0	(h) −0·1	67·8	(h) −2·8	79·9	(h) −1·5	24·3	111·4	43·7	67·7	35·3
	Bidar	2,165	27·735	...	29·563	27·977	27·493	·491	·197	76·0	88·3	...	67·6	...	78·0	...	20·5	106·4	49·7	56·7	30·8
29	Gulbarga	1,503	28·395	−·001	29·862	28·652	28·156	·496	·197	75·5	92·4	0	58·2	−0·6	80·3	−0·3	24·2	110·5	50·3	60·2	33·5
	Raichur	1,811	28·575	−·004	29·845	28·847	28·206	·481	·174	77·0	92·3	+0·2	70·5	−0·9	81·6	−0·3	21·4	109·1	51·1	58·0	35·2
	Hyderabad Deccan	1,690	28·198	(h) 0	29·854	28·467	27·932	·535	·211	74·1	90·6	0	68·8	+0·4	79·7	+0·2	21·8	109·3	49·2	60·1	32·3
	Hanumkonda	871	28·926	−·003	29·829	29·298	28·721	·577	·221	76·9	91·2	(h) −1·7	71·0	(h) −2·9	81·1	(h) −2·4	20·2	111·0	51·7	59·3	21·4
	XIII.—Mysore.																				
30	Chitaldroog	2,405	27·524	0	29·577	27·720	27·340	·380	·169	73·0	87·3	+0·7	57·1	−0·1	77·2	+0·3	20·2	102·1	55·4	46·7	28·9
	Hassan	3,149	26·833	+·012	29·913	27·004	26·675	·329	·163	69·4	83·6	+0·9	52·5	+0·3	73·1	+0·6	21·1	96·1	50·1	46·0	29·4
	Bangalore	3,021	26·939	−·009	29·893	27·126	26·760	·367	·171	69·9	85·3	+1·1	53·7	−0·3	74·6	+0·4	21·6	99·8	51·8	48·0	30·6
	Mysore	2,518	27·438	0	29·906	27·626	27·263	·363	·163	71·9	86·3	−0·1	55·3	−0·3	75·0	−0·2	20·8	98·5	54·0	44·5	29·6
	XIV.—Madras.																				
31	Mangalore	65	29·865	−·007	29·862	30·045	29·699	·346	·170	79·2	86·0	−1·1	74·0	−0·1	80·1	−0·6	12·0	95·2	66·4	28·8	19·2
	Calicut	27	29·910	−·004	29·864	30·070	29·709	·361	·166	78·0	86·1	−0·9	74·2	+0·1	80·2	−0·4	11·8	92·8	64·6	28·2	19·0
	Cochin	9	29·936	+·005	29·873	30·078	29·775	·303	·146	78·3	87·7	+0·1	74·8	0	81·3	+0·1	12·9	94·3	63·2	28·1	20·1
	Trivandrum	198	29·735	+·007	29·865	29·883	29·565	·318	·150	77·8	83·9	−0·1	74·6	+0·6	79·3	+0·3	9·3	90·0	64·0	26·0	15·8
32	Tinnevelly	163	29·762	+·009	29·860	30·000	29·507	·493	·180	82·3	(c) 94·4	(c) −0·6	70·0	−0·6	(c) 85·4	−0·6	(b) 15·5	106·3	61·9	41·4	(b) 26·5
	Pamban	37	29·866	−·013	29·839	30·105	29·704	·401	·178	81·2	87·3	+0·1	77·4	−0·1	82·4	0	9·9	94·3	66·7	27·6	17·0
	Madura	447	29·480	+·016	29·866	29·720	29·316	·404	·181	80·5	93·3	−0·7	73·6	−0·2	83·5	−0·5	19·6	104·4	62·1	42·3	29·1
	Periyakulam (*b*)	944	28·963	...	29·855	29·169	28·501	·668	·174	76·5	91·6	...	(b) 70·1	...	(b) 86·8	...	(b) 21·5	102·0	57·1	44·9	(b) 31·9
	Pudukkottai	318	29·605	...	29·857	29·848	29·436	·412	·192	79·7	93·7	...	(b) 73·6	...	(b) 85·3	...	(b) 19·5	108·3	61·9	46·4	(b) 30·0
	Negapatam	31	29·872	−·009	29·852	30·107	29·497	·410	·192	81·0	91·8	+2·0	76·0	+0·1	83·9	+1·0	15·7	106·9	62·0	44·9	26·4
	Trichinopoly	255	29·668	+·004	29·859	29·916	29·493	·423	·186	80·6	94·5	+0·1	74·0	−0·1	84·3	0	20·5	108·1	60·8	47·3	31·1
	Coimbatore	1,348	28·576	+·002	29·856	29·792	29·426	·366	·189	74·9	90·0	−0·3	59·4	−0·2	79·7	−0·3	20·6	101·4	58·3	43·1	29·4
	Salem	940	29·004	−·003	29·892	29·238	28·830	·408	·186	78·0	93·7	+0·8	71·3	+1·1	82·5	+0·9	21·0	108·7	(c) 57·4	51·3	32·6
	Cuddalore	37	29·871	+·001	29·838	30·121	29·683	·438	·199	79·5	91·1	+0·7	74·5	+0·3	82·8	+0·5	16·7	108·1	61·2	46·9	28·6
	Vellore	707	29·210	...	29·966	29·483	29·009	·474	·194	77·2	92·6	...	(c) 71·3	...	(c) 81·0	...	(c) 19·4	111·2	57·0	54·2	(c) 31·4
	Madras	22	29·883	−·005	29·836	30·165	29·671	·494	·205	80·4	91·5	+0·5	74·8	0	83·2	+0·3	16·8	109·5	60·5	49·0	28·3

N. B.—Elevations in italics indicate barometrical determinations.

NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(*b*) Mean of 11 months.
(*c*) „ of 9 „
(*h*) „ of 3 „

B—*contd.*

243 stations in India, etc., in the year 1908.

Wind direction. Number of winds from									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.						Highest rainfall during year.	Station.
Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Mean velocity in miles per hour.	Normal.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.		
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									Central Provinces—*concld.*
138	14	10	14	17	6	10	68	91	8·4	6·1	+0·3	54	—5	·453	—·048	3·4	+0·4	36	42·30	—6·30	19·90	31·35	—11·45	1·31	Khandwa.
140	...	19	52	11	5	49	78	12	3·8	3·2	+0·4	59	—7	·436	—·065	3·4	—0·1	57	56·00	+1·00	39·15	52·08	—12·93	2·62	Hoshangabad.
44	12	22	27	46	26	53	112	22	6·1	4·4	+1·7	49	—10	·412	—·063	3·5	+0·5	60	58·10	+1·90	45·93	48·57	—2·64	10·90	Saugor (*a*).
75	9	11	9	57	59	40	69	37	2·6	3·1	—0·5	61	—6	·469	—·063	3·2	—0·2	72	63·90	+8·10	60·33	59·11	+1·22	3·48	Jubbulpore.
94	58	66	12	7	19	32	40	48	4·4	3·8	+0·6	57	—7	·460	—·070	3·6	+0·1	66	71·40	—5·40	51·26	55·27	—4·01	2·39	Seoni.
40	117	35	9	7	17	35	70	35	4·5	5·6	—1·1	53	—8	·463	—·090	3·5	—0·4	64	58·60	+5·40	50·03	49·49	+0·54	5·11	Nagpur.
93	67	16	9	16	48	35	13	68	5·3	...	...	54	...	·444	...	3·1	...	75	...	...	65·45	...	...	4·45	Pendra.
137	16	25	7	3	13	109	35	11	6·2	5·9	+0·9	60	—3	·500	—·065	3·3	—0·3	69	62·50	+6·50	49·21	50·65	—1·44	5·60	Raipur.
108	19	18	16	24	25	37	65	54	4·7	3·6	+1·1	61	—4	·549	—·040	4·0	+0·4	71	61·70	+9·30	60·83	55·75	+5·08	4·99	Chanda.
																									XII.—Hyderabad.
52	23	37	62	19	6	31	91	45	11·2	...	...	51	—4	·448	...	3·0	...	32	47·40	—15·40	19·01	27·82	—8·81	2·63	Aurangabad.
195	3	6	...	6	11	101	4	36	4·2	...	...	63	—4	·575	...	3·0	...	63	58·30	+4·70	51·99	41·07	+10·92	6·50	Nizamabad (*d*).
59	34	30	22	30	26	102	46	17	5·8	...	...	61	...	·529	...	2·3	...	41	59·10	—18·10	34·54	39·71	—5·17	6·46	Bidar.
32	25	45	65	21	22	45	64	47	10·0	10·2	—0·2	59	—5	·519	—·052	3·6	—0·2	49	48·70	+0·30	30·10	31·76	—1·66	3·76	Gulbarga.
41	4	36	25	60	7	104	34	55	9·3	9·6	—0·3	61	—4	·572	—·033	4·1	+0·4	44	44·20	—0·20	24·73	30·74	—6·01	3·12	Raichur.
203	...	7	5	4	...	1	123	24	4·4	5·5	—1·1	63	—8	·519	—·103	4·8	+1·2	43	...	...	37·30	31·56	+5·74	6·03	Hyderabad Deccan.
105	24	1	2	70	34	29	53	48	6·6	...	...	60	—7	·558	...	4·2	...	56	51·40	+4·60	54·59	32·86	+21·73	12·01	Hanumkonda.
																									XIII.—Mysore.
42	5	10	49	42		72	102	44	6·8	8·1	—1·3	67	—3	·546	—·039	4·1	—1·0	36	48·5	—12·50	15·40	26·33	—10·93	2·27	Chitaldroog.
48	8	29	60	37	5	52	88	49	7·1	3·6	+3·5	78	+2	·568	—·006	5·4	—0·2	42	68·20	—26·20	20·08	35·29	—15·21	1·36	Hassan.
4	5	37	75	34	27	88	85	11	8·2	6·3	+1·9	77	—1	·566	—·014	4·9	—0·1	47	58·60	—11·60	25·80	35·06	—9·26	2·62	Bangalore.
20	8	44	50	17	21	113	81	12	9·2	10·0	—0·8	75	—1	·610	+·009	5·6	+0·3	54	55·90	—1·90	26·27	30·91	—4·64	3·21	Mysore.
									*																**XIV.—Madras.**
85	26	60	120	17	4	7	19	28	4·9	2·9	+2·0	79	—2	·789	0	4·9	—0·2	108	117·90	—9·90	140·01	123·94	+25·07	7·46	Mangalore.
92	33	46	85	29	8	8	8	67	6·3	8·6	—2·3	85	+2	·817	+·015	5·1	+0·3	99	116·10	—17·10	107·52	115·11	—7·59	4·28	Calicut.
48	21	110	114	28	10	6	16	13	* 6·3	5·5	+0·8	80	—1	·761	—·031	5·2	+0·5	123	130·60	—7·60	111·40	115·63	—4·23	4·85	Cochin.
111	55	34	15	3	...	...	15	133	5·4	6·1	—0·7	82	0	·794	0	5·3	—0·2	96	92·90	+3·10	58·31	62·78	—4·47	8·50	Trivandrum.
101	71	25	4	...	5	3	68	71	3·8	6·0	—2·2	65	—4	·715	—·027	5·0	+0·3	34	41·40	—7·40	23·63	28·63	—5·00	3·15	Tinnevelly.
18	37	45	35	19	71	79	25	37	12·9	10·3	+2·6	82	+2	·875	...	4·0	...	44	42·70	+1·30	31·31	38·97	—7·66	4·53	Pamban.
18	71	59	26	5	2	5	74	106	7·3	4·2	+3·1	70	0	·718	—·018	6·0	+1·8	52	50·20	+1·80	38·48	33·30	+5·18	2·98	Madura.
299	4	6	3	5	6	6	5	1	* 2·7	...	...	66	...	·623	...	3·4	...	38	47·40	—9·40	27·76	28·23	—0·47	2·61	Periyakulam (*f*).
32	72	57	3	5	10	32	58	96	9·3	...	...	72	...	·732	...	5·9	...	47	...	...	27·80	...	...	3·18	Pudukkottai (*e*).
10	7	44	7	8	4	67	132	87	10·0	6·8	+3·2	74	—2	·786	—·022	4·7	—0·7	40	58·20	—18·20	48·34	55·56	—7·22	5·76	Negapatam.
63	42	32	14	2	14	72	99	28	5·6	5·8	—0·2	69	—3	·714	—·017	4·8	—0·1	40	44·60	—4·60	32·62	32·54	+0·08	2·98	Trichinopoly.
89	12	76	32	8	8	133	6	2	6·5	4·2	+2·3	77	—6	·671	—·062	3·9	—0·8	41	43·80	—2·80	21·42	20·90	+0·52	2·42	Coimbatore.
34	10	46	83	6	24	80	71	12	5·6	4·2	+1·4	76	0	·739	+·010	5·5	+1·1	55	59·50	—4·50	32·52	40·50	—7·99	3·75	Salem.
33	44	12	1	9	42	94	58	73	7·8	2·5	+5·3	77	—6	·777	—·091	5·1	—0·1	49	56·30	—7·30	48·90	52·58	—3·68	4·70	Cuddalore.
196	4	10	19	78	5	7	17	26	4·1	...	...	73	...	·678	...	3·8	...	50	54·90	—4·90	30·54	38·47	—7·93	2·77	Vellore (*i*).
50	48	11	4	13	78	60	69	34	5·4	6·8	—1·4	79	+3	·819	+·014	4·6	—0·5	57	83·70	—26·70	54·85	50·39	+4·46	6·58	Madras.

† Mean of 10 months.

* Uncorrected for scale error.

(*a*) Wind observations 3 less.
(*d*) Wind observations 4 less.
(*e*) „ „ 31 „
(*f*) „ „ 5 „
(*i*) „ „ 1 „

Table

(2) *Abstract of observations taken at 8 hrs. at*

Number of sub-division.	Station.	Elevation of bar. cistern above sea level, in feet.	Pressure, 8 hrs. in inches.						Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to correct for gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5		7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Madras. —*concld.*																				
39	Cuddapah	433	29·472	+·003	29·831	29·748	29·251	·497	·201	80·3	90·0	+0·5	73·9	−0·6	84·0	0	22·2	112·2	58·6	53·6	33·7
	Bellary	1,476	28·428	0	29·863	29·665	29·223	·442	·183	75·6	94·0	+0·9	70·6	0	82·3	+0·5	23·3	110·0	54·8	55·2	34·2
	Kurnool	923	28·966	−·007	29·346	29·233	28·745	·488	·194	75·3	93·9	+0·1	70·0	−0·5	82·0	−0·2	24·0	111·2	50·6	60·6	35·4
38	Nellore	66	29·834	+·010	29·833	30·142	29·613	·529	·213	80·4	93·6	−0·7	74·6	−0·5	84·1	−0·6	19·0	112·8	60·6	52·2	30·5
	Masulipatam	15	29·988	+·016	29·838	30·214	29·623	·591	·233	79·9	90·6	−0·1	74·1	−0·2	82·4	−0·2	16·5	113·3	60·1	53·2	26·2
	Cocanada	26	29·858	+·001	29·820	30·197	29·558	·639	·233	78·8	90·2	+0·8	74·2	−0·7	82·2	0	16·0	114·1	59·0	55·1	27·6
	Waltair (Vizagapatam)	226	29·638	−·006	29·807	29·931	29·286	·685	·236	79·5	86·5	...	75·0	...	80·8	...	11·5	105·4	59·9	45·5	21·9
	Calingapatam	19	29·853	...	29·812	30·213	29·478	·735	·239	...	...	...	...	...	...	...	...	...	...	...	...
	Gopalpur	72	29·783	+·004	29·798	30·177	29·395	·782	·245	75·9	85·8	−0·1	72·0	−1·3	78·9	−0·7	13·8	102·2	53·0	49·2	23·4
	Stations in the Bay.																				
1	P. V. Fraser (*b*)	8	29·850	...	29·775	30·225	29·395	·830	·249	79·9	...	...	...	...	...	...	...	...	...	...	...
	Car Nicobar	25	29·873	...	29·825	30·012	29·773	·234	·142	82·0	86·5	...	77·0	...	81·8	...	9·5	93·6	69·3	24·3	15·8
	Port Blair	58	29·854	+·002	29·843	30·052	29·697	·355	·175	79·3	85·9	−1·4	76·2	−0·9	81·1	−1·1	9·7	94·7	68·0	26·7	16·6
	Slipper Island	90	29·796	...	29·820	30·005	29·581	·424	·183	80·7	85·8	...	77·0	...	81·4	...	8·8	93·6	69·1	24·5	15·1
	Kashmir.																				
14	Srinagar	5,204	24·879	−·009	24·850	25·168	24·491	·677	·354	49·6	67·5	+1·6	44·7	+0·7	56·1	+1·2	22·9	96·6	12·1	84·5	40·8
	Gurais (*k*)	8,569	21·240	...	24·808	21·939	21·643	·346	·200	55·8	65·0	...	44·4	...	54·7	...	20·6	79·7	29·3	50·4	33·4
	Sonemarg	8,764	21·207	... (*k*)	21·775	22·011	21·496	·605	·301	35·9	54·3	... (*k*)	31·1	...	42·7	... (*k*)	23·3	81·4	−3·2	85·3	44·1
	Dras	10,059	20·790	−·053	20·758	21·060	20·345	·715	·381	32·0	51·1	−0·5	23·3	−2·0	37·2	−1·9	27·8	68·9	−36·0	124·9	53·3
	Leh	11,503	19·893	−·004 (*k*)	19·866	19·923	19·236	·687	·366	37·6	54·8	−0·7 (*k*)	30·5	+0·7 (*k*)	42·6	0 (*k*)	24·3	85·6	−1·0	86·6	43·4
	Skardu	7,503	22·967	−·013	22·837	23·223	22·470	·753	·424	46·6	63·3	−1·0	41·6	−2·0	52·5	−1·6	21·7	94·9	8·1	90 8	40·4
	Minimarg (*i*)	9,359	21·275	...	21·243	21·573	20·844	·729	·548	23·7	39·2	...	15·2	...	27 2	...	24·1	61·5	−6·5	68·0	56·5
	Astor (*i*)	7,955	22·564	...	23·531	23·804	22·110	·694	·532	28·2	42·7	...	24·6	...	33·7	...	18·1	68·4	4·0	64·4	43·9
	Gilgit	4,890	25·123	...	25·101	25·542	24·694	·848	·452	59·5	73·5	−0·3	51·7	−1·7	62·1	−1·0	20·8	103·7	25·2	83·5	38·9
	Baluchistan.																				
16	Quetta	5,502	24·626	+·005	24·596	24·877	24·340	·537	·274	56·0	74·4	+0·9	43·2*	−0·2	60·6	+0·2	28·8	100·6	14·0	86·6	49·7*
	Chaman	4,511	25·667	−·005	25·629	25·933	25·335	·618	·289	62·4	78·4	−0·9	53·3	−0·9	66·2	−0·9	24·6	108·8	20·8	88·0	48·9
	Robat	...	26·883	...	26·841	27·305	26·495	·820	·369	70·0	88·0	...	59·5	...	73·8	...	28·5	116·5	23·7	92·8	50·6
	Hill Stations excluding Kashmir and Baluchistan.																				
	Chitral	5,486	...	...	...	...	...	...	...	(*b*) 52·1	(*b*) 71·3	...	(*a*) 32·2	...	(*a*) 52·3	...	(*a*) 39·3	105·2	24·0	81·2	(*a*) 46·5
	Para Chinar	6,000	24·373	...	24·340	24·609	24·031	·578	·339	57·5	70·0	...	47·8	...	58·9	...	22·2	93·7	21 8	76 9	40·1
	Cherat	4,256	25·671	+·003	25·639	25·937	25·352	·585	·299	60·7	70·6	−3·1	55·5	−1·3	63·1	−2·2	15·1	103·1	26·5	76·6	34·7
	Murree	6,333	23·829	0	23·797	24 021	23·513	·508	·301	53·1	63·9	−1·9	50·4	−0·4	57·2	−1·2	13·4	93·0	25·0	68·0	35·7
	Kailang	10,067	20·955	...	20·910	21·193	20·472	·721	·332	39·3	55·7	+0·3	32·3	+0·3	44·0	+0·3	23·4	83·6	0·5	83·1	43.8
	Simla	7,232	23·095	+·004	23·057	23·284	22·819	·465	·247	51·3	61·8	+1·0	39·2	+0·3	50·0	+0·6	11·6	83·5	25·1	58·4	27·6
	Sanain	...	23·141	...	...	23·336	22·873	·463	·233	48·5	62·7	...	43·2	...	53·0	...	19·5	84·0	19·9	64	34·9
	Kalabagh (*a*)	...	20·120	...	...	20·261	19·958	·293	·183	49·1	55·6	...	44·3	...	50·0	...	11·4	85·2	31·1	34·1	23·3

N. B.—Elevations in italics indicate barometrical determinations.

NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(*b*) Mean of 11 months. (*a*) Mean of 8 months.

* Mean of 10 ,,

(*k*) Mean of 5 ,,

(*h*) Mean of 3 ,,

(*i*) Mean of 4 ,,

(*a*) Mean of 6 ,,

B.—*contd.*

243 stations in India, etc., in the year 1908.

Wind direction. Number of winds from.									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.							Station.
Calm.	N.	N.E.	E.	S.E.	S.	S.W	W.	N.W.	Mean velocity in miles per hour.	Normal.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									Madras—*contd.*
...	3	38	33	65	1	49	99	80	...	...	...	69	+1	·708	+·002	4·7	+0·4	37	43·70	−6·70	23·42	32·69	−9·27	3·23	Cuddapah.
81	13	6	29	26	27	40	96	42	5·8	6·7	−0·9	57	−5	·514	−·066	4·0	−0·7	29	34·30	−5·30	14·76	19·73	−4·97	2·01	Bellary (*f*).
123	6	6	22	6	20	93	35	45	7·8	...	...	69	+3	·606	−·019	3·4	−0·4	50	47·20	+2·40	27·78	25·40	−0·62	2·60	Karnool.
19	20	10	17	41	69	29	73	93	6·2	6·7	−0·5	73	−3	·749	−·060	5·2	+0·2	40	42·40	−2·40	44·01	30·73	+13·28	6·15	Nellore.
72	17	37	24	18	65	26	54	53	7·0	6·5	+0·5	81	−1	·831	−·0157	5·1	+0·3	51	51·00	0	27·42	40·91	−13·49	3·00	Masulipatam.
60	43	32	3	8	2	93	58	60	7·0	7·9	−0·9	79	+4	·791	+·031	5·8	+1·1	43	53·20	−10·20	28·58	39·84	−11·26	2·71	Cocanada.
18	17	72	3	1	8	141	95	11	10·7	...	...	67	−6	·690	−·077	5·5	+0·7	43	49·60	−6·60	28·79	43·54	−14·75	5·20	Waltair (Vizagapatam).
21	19	19	4	6	32	108	74	83	7·6	...	...	...	...	...	...	3·1	...	51	...	...	29·37	...	...	3·35	Calingapatam.
15	99	7	6	3	28	107	15	84	11·9	11·8	+0·1	81	0	·744	−·040	3·2	−1·4	54	55·20	−1·20	27·53	47·53	−10·00	2·29	Gopalpur (*c*).
																									Stations in the Bay.
11	53	35	9	12	50	91	25	23	(*a*) 8·6	...	...	81	...	·847	...	5·0	...	53	...	...	(*e*) 33,92	...	...	4·15	P. V. Fraser (*d*).
14	27	41	2	...	23	121	23	5	3·8	...	...	81	...	·885	...	9·4	...	126	...	...	78·05	...	...	5·62	Car Nicobar (*m*).
65	29	41	21	9	17	64	68	52	7·6	7·5	+0·1	84	−2	·848	−·047	7·0	+1·0	148	...	...	140·78	117·63	+23·15	10·17	Port Blair.
17	53	37	33	11	37	78	54	46	14·8	...	...	82	...	·854	...	7·0	+2·4	100	...	...	71·78	...	...	4·83	Slipper Island.
																									Kashmir.
130	23	13	14	64	38	18	18	48	3·6	3·6	0	82	−4	·334	−·021	4·3	...	66	56·50	+9·50	34·10	24·74	+9·36	2·49	Srinagar.
23	9	46	14	8	5	19	7	6	6·3	...	...	83	...	·379	...	3·7	...	42	...	...	25·02	...	...	2·16	Gulmarg.
205	22	66	37	12	8	4	5	4	3·2	...	...	(*b*) 52	...	(*b*) ·188	...	4·5	...	118	...	...	77·02	...	...	3·58	Sonemarg. (*k*)
351	3	...	3	3	3	3	1	...	3·4	...	...	74	−2	·162	...	3·7	...	61	61·10	−0·10	19·28	21·74	−3·46	1·15	Dras.
305	8	10	11	3	10	7	12	...	*2·9	2·0	+0·9	43	−4	·129	−·002	5·3	+0·5	13	9·30	+3·70	4·81	3·00	+1·81	0·70	Leh.
293	2	8	10	10	20	19	4	...	4·6	...	...	68	−3	·204	...	4·4	...	17	17·00	0	6·30	7·41	+0·89	0·95	Skardu.
95	1	4	13	4	3	...	1	1	2·3	...	...	82	...	·097	...	6·1	...	53	...	...	31·75	...	...	1·70	Minimarg. (*g*)
74	..	...	1	4	25	14	4	...	3·2	...	...	85	...	·104	...	6·6	...	17	...	...	2·64	...	...	0·60	Astor. (*g*)
310		2	4	...	...	11	38	...	1·8	...	...	56	+5	·291	+·022	5·1	+0·3	25	14·00	+11·00	7·31	4·30	+2·51	0·80	Gilgit. (*c*)
																									Baluchistan.
277	9	7	7	23	18	8	10	7	3·1	2·9	+0·2	53	−5	·248	−·039	1·5	−0·4	16	26·80	−10·80	6·16	10·68	−4·52	0·69	Quetta.
97	3	1	23	70	66	91	17	8	6·8	8·1	−1·3	43	−1	·246	−·031	1·9	−0·1	18	19·60	−1·60	6·14	6·29	−0·15	0·85	Chaman.
73	37	95	16	1	7	35	90	11	7·9	...	...	59	...	·406	...	0·7	...	7	...	...	3·49	...	...	1·82	Robat.
																									Hill Stations excluding Kashmir and Baluchistan.
312	...	20	1	...	1	...	...	2	(*b*) 5·7	...	...	(*b*) 72	...	(*b*) ·304	...	(*b*) 3·0	...	(*b*) 38	...	...	(*a*) 15·48	...	...	1·50	Chitral.
334	3	1	6	2	10	...	8	2	4·5	...	...	58	...	·289	...	3·1	...	73	58·20	+14·80	32·63	25·18	+7·45	2·62	Para Chinar.
128	113	11	1	13	12	4	3	81	9·5	11·4	−2·9	57	+4	·321	+·002	2·7	−0·4	49	...	...	36·11	24·43	+11·68	4·30	Cherat.
213	43	13	17	89	60	4	1	27	7·8	7·3	+0·5	53	+3	·282	+·019	3·6	−0·3	93	77·30	+15·70	70·27	55·85	+14·42	7·10	Murree.
...	7	13	23	80	61	82	70	27	1·4	1·6	−0·3	68	...	·181	...	4·6	...	50	...	...	25·14	22·84	+2·30	1·64	Kailang (*l*).
32	150	6	2	17	99	6	...	11	(*b*) 6·1	4·6	+0·5	53	−5	·239	−·021	3·7	−0·5	73	80·10	−7·10	54·22	63·59	−9·37	2·85	Simla (*n*).
152	3	18	8	4	85	87	6	3	3·0	...	...	99	...	·255	...	3·7	...	90	...	...	57·57	...	...	5·20	Sarain.
47	50	5	1	3	43	11	...	13	6·0	...	...	67	...	·239	...		...	64	...	...	54·08	...	...	7·70	Kalabagh (*g*).

(*f*) Wind observations 3 less.
(*g*) ,, ,, 193 ,,
(*c*) ,, ,, 1 ,,
(*j*) ,, ,, 57 ,,
(*m*) ,, ,, 119 ,,
(*d*) ,, ,, 229 ,,
(*l*) ,, ,, 3 ,,
(*g*) ,, ,, 244 ,,
(*n*) ,, ,, 43 ,,

* Uncorrected for scale error.
(*a*) Mean of 8 months.
(*b*) ,, 11 ,,

(*a*) Rainfall for the month of March 1908, wanting.
(*e*) ,, June 1908, ,,
(*p*) ,, January to April and November and December 1908, wanting.

TABLE

(2) *Abstract of observations taken at 8 hrs., at*

Number of sub-division.	Station.	Elevation of bar. cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean daily maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Hill Stations excluding Kashmir and Baluchistan —*contd.*																				
	Chakrata . .	7,022	23·280	+·015 (h)	23·240	23·462	23·045	·417	·239	54·6	67·0	+2·6 (h)	50·2	+0·5 (h)	58·6	+1·7 (h)	16·9	85·3	26·7	58·6	32·4
	Muktesar . .	7,592	22·325	−·040	22·783	23·008	22·608	·400	·223	54·7	66·4	0	43·9	−1·6	57·2	−0·8	16·5	85·5	27·0	58·5	32·3
	Darjeeling . .	7,376	23·004	−·063	22·960	23·172	22·787	·385	·196	53·6	60·9	+2·4	48·0	+0·4	54·5	+1·4	12·9	74·3	31·7	42·6	22·4
	Shillong . .	4,920	25·106	...	25·053	25·320	24·815	·505	·211	60·9	70·8	...	53·2 (b)	...	62·0 (b)	...	12·6 (b)	83·9	32·7	51·2	28·7 (b)
	Cherra Poonjee .	4,309	25·678	... (b)	25·619	25·895	25·353	·542	·212	62·5	69·4	... (b)	56·7	... (b)	64·5	... (b)	11·6	81·2	35·8	45·4	23·3 (b)
	Mayavo . .	9,545	20·423	−·006	20·868	20·674	20·213	·461	·197	64·6	76·7	−1·2	53·0	+1·8	67·4	+0·3	18·7	90·4	33·6	56·8	30·3
	Pachmarhi . .	3,528	26·425	−·001	26·372	26·676	26·101	·575	·223	67·6	80·2	+0·7	60·1	−1·1	70·2	−0·2	20·2	99·2	31·6	67·6	33·4
	Mount Abu . .	3,945	26·025	−·003	25·975	26·284	25·724	·560	·241	67·5	74·9	−1·1	61·9	−1·1	68·4	−0·7	13·1	91·7	37·9	53·8	29·4
	Mercara . .	3,781	26·227	−·004	26·160	26·372	26·082	·290	·144	65·2	76·4	−0·2	60·9	−0·4	68·7	−0·3	15·5	89·0	52·0	37·0	23·3
	Ootacamund . .	7,412	23·033	... (h)	22·969	23·166	22·903	·263	·125	56·5	65·4	... (h)	43·2	... (h)	56·8	... (h)	17·2	74·5	33·7	40·8	23·1
	Kodaikanal . .	7,388	22·926	−·028	22·761	22·940	22·697	·243	·131	56·5	64·4	−0·7	51·0	−1·3	57·7	−1·0	13·4	75·0	38·0	37·0	22·9
	Extra India.																				
	Singapore (a) .	10	29·938	...	29·969	30·078	29·828	·250	·153	83·4	87·6	...	73·9	...	80·8	...	13·8	93·8	69·4	24·4	19·2
	Penang (a) . .	20	29·917	...	29·952	29·996	29·826	·170	·111	81·7	90·0	...	73·9	...	82·0	...	16·1	96·0	67·0	29·0	21·3
	Trincomalee . .	12	29·917?	+·028?	29·954?	30·109	29·698	·411	·151	77·2	88·5	−0·1	70·0	−0·3	82·3	−0·2	12·5	97·0	67·5	29·5	20·2
	Colombo . .	40	29·893	−·012	29·950	30·029	29·721	·308	·163	77·2	87·1	+0·2	75·4	−0·2	81·3	0	11·8	93·0	66·0	27·0	19·0
	Minicoy . .	7	29·958	...	...	30·083	29·794	·289	·150	...	...	...	...	...	...	...	...	...	...	...	...
	Amini Divi (X) .	13	29·926	+·003	29·967	30·082	29·784	·298	·148	82·1	88·2	+1·7	76·9	−0·4	82·6	+0·7	11·3	96·3	68·1	30·2	19·9
	Gyantse . .	13,120	... (k)	...	...	...	...	...	... (k)	36·7	60·6	...	26·0	...	43·3	...	34·6	87·7	−6·1	93·8	51·6
	Pharijong (c) .	14,400	17·87 (g)	...	...	19·040	17·624	·416	2·6 (g)	33·6	51·4	...	21·5	...	36·4	...	29·9	68·1	−10·2	78·3	40·9
	Gangtok . .	5,660?	24·400	...	...	24·642	24·137	·505	·201	50·9	69·2	...	52·6	...	60·9	...	16·7	80·3	31·0	49·3	28·1
	Gartok (f) . .	15,100?	17·249	...	...	17·411	17·061	·350	·298	11·6	31·0	...	0·2	...	15·6	...	30·8	43·3	−22·7	66·0	59·2
	Kashgar (m) (δ) .	4,255	25·571	...	...	26·099	25·190	·870	·536	50·9	67·8	+1·8 (δ)	43·6	−0·1 (δ)	55·7 (δ)	+0·9 (δ)	24·2 (δ)	102·1	4·8	97·3	44·4 (δ)
	Kabul . . .	...	24·249	...	24·218	24·532	23·953	·579	·324	54·1	73·4	+1·1	41·8	−0·7	58·0	+0·1	30·6	101·6	−0·1	101·7	52·8
	Meshed . . .	3,101	26·773	...	...	27·224	26·424	·800	·458	52·4	70·8	...	30·6	...	55·2	...	31·2	101·6	3·8	97·8	58·5
	Jask . . .	13	29·863	−·002	29·893	30·256	29·389	·867	·293	78·4	86·4	−0·2	74·0	+0·6	80·2	+0·2	12·4	100·8	52·3	57·5	26·5
	Muscat . . .	20	29·865	+·008	29·893	30·225	29·393	·832	·273	80·9	88·9	+5·5	77·6	−1·1	83·3 (k)	+2·2	11·3 (k)	114·3	60·1	54·2	25·9 (k)
	Bahrein . .	18	29·903	...	29·874	30·410	29·420	·990	·328	77·0	83·5	...	72·8	...	78·1	...	10·7	106·6	44·8	61·8	26·5
	Bushire . .	14	29·854	−·007	29·827	30·326	29·367	·959	·334	73·5	82·4	+0·2	69·0 (d)	+0·5	75·7 (d)	+0·4	13·4 (d)	113·1	39·1	73·0	33·1 (d)
	Busrah . . .	25	29·907	...	29·892	30·474	29·384	1·090	·376	69·8	85·3	...	57·5	...	79·2	...	20·8	109·0	31·1	77·9	39·5
	Ispahan (n) . .	5,827	24·263	...	...	24·540	23·930	·610	·358	52·4	73·3	−0·8	46·4	+1·2	59·9	+0·2	26·9	102·4	14·2	88·2	46·0
	Tehran (n) (b) .	4,002	25·796 (e)	... (e)	25·350	26·300	25·350	·950	·434 (e)	55·9	74·3	+1·6	50·4	−0·3	62·3	+0·7	23·9	108·6	16·7	91·9	46·0
	Baghdad . .	220	29·773	−·004	29·974	30·323	29·242	1·081	·311	66·2 (c)	85·8	+0·8	50·8	+1·3	68·3	+1·1	25·0	116·3	30·5	86·3	42·4
	Beirut . . .	...	...	..	29·907	...	...	...	...	69·4 (c)	75·1	...	61·9	...	68·5	...	13·3	90·4	39·9	50·5	28·0
	Aden . . .	94	29·848 (d)	+·022 (d)	29·874 (d)	30·104	29·634	·370	·100 (d)	81·0	87·3	−0·9	77·5	−0·2	82·5	−0·6	9·8	98·8	64·9	33·9	19·7
	Perim . . .	201	29·638	−·015	29·772	29·905	29·437	·468	·175	82·8	89·1	−0·7	76·1	0	84·2	−0·3	10·0	101·5	69·6	31·9	16·4
	Zanzibar . .	72	29·9·5	+·002	29·993	30·155	29·701	·354	·141	79·0	84·4 (d)	+0·8	76·5	+0·1	80·5 (d)	+0·4	7·9 (d)	91·3	69·8	21·5	13·7 (d)
	„ Dunga (g)	134	29·847	...	29·930	29·983	29·655	·328	·100	76·4	85·1	...	75·9	...	80·4	...	9·3	97·5	68·8	28·7	16·2

N. B.—Elevations in italics indicate barometrical determinations.

NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(a) 9 hrs. observations.
(m) Aneroid uncorrected for scale error.
(n) Aneroid corrected.

(x) Mean of 10 months.
(i) „ „ 11 „
(b) „ „ 6 „
(k) „ „ 8 „
(c) „ „ 7 „
(g) „ „ 9 „
(d) 24-hours observations.
(e) Mean of 8 months.
(h) „ „ 3 „

B—*concld.*

243 stations in India, etc., in the year 1908.

Wind direction. Number of winds from.									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.						Heaviest rainfall during year.	Station.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity in miles per hour.	Normal.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.		
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									Hill Stations excluding Kashmir and Baluchistan —*concld.*
135	151	10	...	9	38	2	1	30	6·7	6·3	+0·4	59	—5	·274	—·017	3·1	—0·3	73	88·00	—15·00	66·91	70·71	—3·80	6·36	Chakrata.
166	5	13	46	28	10	3	94	2	6·6	...	...	64	—7	·247	...	3·6	...	56	...	...	34·75	...	...	2·58	Muktesar.
69	17	75	52	55	5	27	36	26	3·7	4·8	—1·1	80	—7	·355	—·002	5·1	—0·9	114	121·09	—7·09	90·70	125·38	—33·68	4·54	Darjeeling (*f*).
259	1	3	4	15	13	53	11	2	3·8	...	...	72	...	·406	...	4·1	...	116	120·40	—4·40	67·46	79·72	—12·26	3·10	Shillong.
67	16	65	73	16	14	73	34	8	5·0	...	...	80	...	·469	...	4·5	...	152	161·70	—9·70	282·60	438·85	—156·25	14·00	Cherra Poonjee.
213	1	24	11	12	26	47	19	3	2·1	...	...	85	+2	·541	...	2·7	...	94	90·70	+3·30	59·81	55·96	+0·85	4·36	Maymyo (*g*).
88	11	38	17	6	6	35	97	70	6·6	5·9	+0·7	58	—2	·396	—·038	2·8	—1·1	86	79·20	+0·80	74·24	76·21	—1·97	4·31	Pachmarhi.
62	22	35	4	13	19	112	48	43	8·0	7·8	+0·2	53	—2	·327	—·016	3·3	0	64	54·20	+9·80	129·09	61·73	+68·26	11·30	Mount Abu (*f*).
29	45	65	46	5	1	19	82	74	5·5	5·9	—0·4	86	+3	·525	—·011	6·1	+0·2	121	134·70	—13·70	124·86	125·94	—1·08	5·26	Mercara.
77	11	35	79	44	18	11	73	20	5·0	...	...	68	...	·313	...	4·7	...	88	90·70	—2·70	38·43	46·60	—8·17	1·55	Ootacamund.
1	48	39	57	36	25	8	68	86	13·2	...	...	69	—1	·316	...	3·9	...	108	99·40	+8·60	59·17	59·88	—0·71	2·38	Kodaikanal.
																									Extra India.
100	47	63	9	40	13	46	18	31	*5·3	...	...	...	...	...	...	5·7	...	134	...	...	85·68	...	...	4·20	Singapore.
...	75	78	89	32	30	4	7	51	10·4	...	...	...	...	...	...	1·2	...	125	...	...	111·26	...	...	5·65	Penang.
120	4	35	6	1	15	173	9	3	4·8	10·0	—5·2	87	+6	·880	—·034	4·3	+1·0	67	...	...	53·38	62·37	—8·99	3·25	Trincomalee.
8	46	66	12	14	13	162	32	13	6·9	8·0	—1·1	89	+12	·838	—·007	5·8	+0·7	88	...	...	58·24	89·59	—31·35	3·05	Colombo.
11	75	67	13	...	1	11	89	99	6·7	9·5	—2·8	...	...	...	...	4·2	—0·4	101	...	...	77·16 (*e*)	57·48	+19·68	4·36	Minicoy.
13	56	50	3	3	...	30	71	80	...	...	...	77	—2	·839	—·040	5·4	+0·1	65	...	...	51·35	40·32	+11·03	3·28	Aminí Divi (*a*).
...	4	6	25	83	111	30	4	3	2·4	...	...	67	...	·164	...	...	.....	25	...	...	8·53	...	...	0·68	Gyantze.
48	16	1	8	35	34	8	3	13	8·4	...	...	69	...	·191	...	4·2	...	42	...	...	(*c*) 18·62	...	...	4·00	Pharijong (*s*).
315	7	7	...	...	5	4	2	1	2·1	...	...	81	...	·455	...	1·7	...	154	...	...	113·90 (*k*)	...	...	3·46	Gangtok (*m*).
15	...	...	1	15	13	3	...	1	3·0	...	...	...	...	...	...	3·2	...	0	...	...	0 (*q*)	...	...	0	Gartok (*o*).
282	4	...	3	1	1	...	3	39	1·8	2·9	—1·1	44	?	·264	?	2·9	—1·3	10	...	...	2·78	3·94	—1·16	0·60	Kashgar (*e*).
...	62	96	7	1	19	31	74	54	...	...	...	60	...	·268	...	2·1	+0·5	38	...	...	20·86	11·85	+9·01	2·60	Kabul (*p*).
251	39	7	13	16	14	1	8	17	1·5	...	...	66	...	·270	...	2·5	?	19	...	...	7·57	8·29	—0·72	1·00	Meshed.
59	27	32	116	44	1	3	15	56	10·8	11·9	—1·1	74	+3	·762	+·025	1·5	—0·1	3	...	...	0·75	4·46	—3·71	0·46	Jask (*u*).
276	9	5	4	17	...	...	6	43	3·9	4·3	—0·4	65	—4	·703	—·039	2·1 (*a*)	+0·5	5	...	...	0·92	4·43	—3·51	0·21	Muscat (*t*).
...	39	21	22	31	12	22	87	124	7·7	...	...	76	...	·757	...	0·8	...	5	...	...	1·13	...	...	0·32	Bahrein (*v*).
41	49	84	64	32	10	6	11	78	10·7	7·9	+2·8	73	+6	·651	+·043	2·6	...	13	...	...	6·82	12·11	—5·29	1·40	Bushire.
37	22	6	4	26	28	36	112	91	5·7	...	...	67	...	·523	...	1·9	...	13	...	...	5·80	...	...	1·65	Busrah (*w*).
269	10	8	6	6	5	7	38	8	2·3	3·9	—1·6	64	0	·364	—·055	1·7	—0·4	19	...	...	6·26 (*o*)	3·64	+2·62	0·90	Ispahan (*o*).
33	35	129	20	8	12	22	15	10	4·8	2·9	+1·9	66	+18	·335	+·084	1·4	—1·1	21	...	...	8·27	9·39	—1·12	1·10	Tehran (*x*).
106	69	11	11	9	21	9	35	92	8·6	3·6	+5·0	53	—6	·343	—·066	2·0	+0·8	10	...	...	3·51	9·04	—5·53	0·73	Baghdad (*y*).
45	6	29	9	58	3	180	7	20	...	...	...	68	...	·491	...	3·6	...	61	...	...	34·33	...	...	2·61	Beirut.
38	8	235	17	33	24	8	...	...	12·7	12·5	+0·2	74	+1	·702	+·011	4·2	0	2	...	...	1·02	2·97	—1·95	0·71	Aden (*c*).
...	23	8	98	71	76	5	18	73	15·6	16·9	—1·3	71	—2	·790	—·029	...	...	8	...	...	4·09	1·92	+2·17	1·47	Perim.
46	69	38	9	28	87	75	15	2	6·5 (*d*)	6·7	—0·2	81	—2	·803	—·014	6·8 (*l*)	+0·9	75	...	...	54·07 (*j*)	55·04	—0·97	7·44	Zanzibar.
45	49	2	...	5	12	83	43	18	6·1	...	...	90	...	·816	...	2·3	...	56	...	...	41·18	...	...	2·00	„ Dunga (*s*).

(*a*) Wind observations 13 less.
(*b*) „ „ 6 „
(*c*) „ „ 1 „
(*m*) „ „ 25 „
(*n*) „ „ 318 „
(*o*) „ „ 33 „
(*p*) „ „ 2 „
(*q*) „ „ 8 „

(*w*) Wind observations 4 less.
(*x*) „ „ 11 „
(*y*) „ „ 32 „
(*z*) „ „ 3 „
(*s*) „ „ 100 „
(*k*) Rainfall for November and December only.
(*q*) „ October wanting.

* Uncorrected for scale error.
(*l*) Rainfall for October to December wanting.

* Mean of 10 months.
(*f*) „ 4 „
(*g*) „ 10 „
(*i*) „ 9 „
(*j*) „ 8 „
(*t*) „ 6 „

(*u*) Wind observations 61 less.
(*v*) „ „ 200 „
(*r*) Rainfall for October and November wanting.
(*v*) „ „ September to November wanting.

Table C.—Abstract of observations taken at 8 hrs. at 32 fourth class stations in India, etc., in the year 1908.

TABLE

Abstract of observations taken at 8 hrs. at 32

Number of sub-division.	Station.	Temperature of air.											Wind Direction.								
		Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.	Number of winds from							
														Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	II.—Eastern Bengal and Assam.																					
4	Bishnath	67·3	84·8	...	57·5	...	71·2	...	27·3	98·6	30·6	68·0	33·6	...	...	...	...	...	...	...	...	...
	Borjuli	69·9	86·2	...	63·2	...	74·2	...	24·0	98·3	37·0	61·3	34·4	...	...	...	...	...	...	...	...	...
	Chandkhira	71·6	87·9	...	64·2	...	75·9	...	23·7	100·4	42·1	58·3	37·0	...	...	...	...	...	...	...	...	...
	Doom Dooma	66·6	77·2	...	61·9	...	69·6	...	15·3	96·1	39·0	57·1	27·1	...	...	...	...	...	...	...	...	...
	Dikom	68·0	83·2	...	62·8	...	73·0	...	20·4	98·4	36·8	61·6	33·6	...	...	...	...	...	...	...	...	...
	Golaghat	70·4	83·6	...	64·1	...	73·8	...	19·5	96·4	40·9	55·5	30·8	...	...	...	...	...	...	...	...	...
	Hailakandi	68·7	87·3	...	66·1	...	66·5	...	21·2	100·1	39·8	53·3	32·0	...	...	...	...	...	...	...	...	...
	Jorehat	70·3	84·1	...	64·8	...	74·5	...	19·3	97·1	41·8	55·3	30·4	...	...	...	...	...	...	...	...	...
	Messa	74·1	89·8	...	62·5	...	76·1	...	27·3	100·8	38·8	62·0	37·6	...	...	...	...	...	...	...	...	...
	Panerihat	64·2	84·3	...	62·0	...	73·2	...	22·3	96·1	40·0	56·1	33·7	...	...	...	...	...	...	...	...	...
	Srimangal	72·5	88·2	...	65·0	...	76·6	...	23·2	100·6	41·4	59·2	34·6	...	...	...	...	...	...	...	...	...
5	Brahmanbaria	74·9	87·5	...	67·3	...	77·9	...	20·0	102·9	42·1	60·8	32·6	...	...	...	...	...	...	...	...	...
	Dam Dim	66·8	80·4	...	61·3	...	75·4	...	28·1	101·7	35·9	65·8	39·3	...	...	...	...	...	...	...	...	...
	Goalundo	74·8	88·7	...	65·5	...	77·1	...	23·2	107·6	41·2	66·4	35·3	...	...	...	...	...	...	...	...	...
	Kalchini	74·0	85·3	...	62·4	...	73·9	...	22·9	97·6	39·9	57·7	32·5	...	...	...	...	...	...	...	...	...
	Nagrakata	70·7	86·5	...	64·6	...	75·6	...	21·9	100·1	43·0	57·1	32·6	...	...	...	...	...	...	...	...	...
	Pabna	75·7	90·5	...	66·5	...	78·4	...	24·0	107·6	44·9	62·9	37·4	...	...	...	...	...	...	...	...	...
	III.—Bengal.																					
6	(a) Fraserganj	77·8	...	...	...	...	...	...	...	...	...	...	...	159	4	6	4	21	16	24	6	
	XI.—Central Provinces.																					
34	(b) Chindwara	70·7	84·4	...	63·8	...	74·1	...	20·6	107·7	36·9	70·8	31·2	...	29	25	6	3	6	15	66	74
	Hill Stations.																					
	Panighatta	74·6	85·1	...	66·6	...	75·5	...	19·5	99·5	35·7	62·8	30·9	...	...	...	...	...	...	...	...	...
	Kurseong	61·0	69·7	...	57·0	...	63·4	...	12·7	83·5	42·0	41·5	23·5	...	...	...	...	...	...	...	...	...
	Poo	...	58·6	...	41·7	...	50·2	...	16·9	87·0	13·6	73·4	34·6	...	...	3	3	35	31	33	1	6
	Kargil	42·0	62·0	...	33·9	...	48·0	...	23·1	98·3	—0·9	99·2	45·8	...	27	51	4	7	8	73	63	103
	Killa Drosh	56·1	72·1	...	54·1	...	(c) 58·8	...	18·0	105·2	20·0	79·2	39·1	...	...	27	14	11	...	2	6	14
	Pishin	...	76·0	...	45·0	...	60·5	...	31·0	103·6	13·2	90·4	53·7	...	...	...	...	...	...	...	...	...
	Kalat	55·1	72·4	...	38·2	...	55·0	...	34·2	100·2	8·3	91·9	56·2	...	77	...	9	...	207	...	12	...
	Extra India.																					
	(c) Ahwaz	...	88·4	...	57·6	...	72·9	...	30·6	109·1	38·0	71·1	53·7	...	13	...	...	...	6	16	...	...
	Birjand	57·8	70·7	...	46·1	...	59·9	...	21·6	101·5	10·7	90·8	46·2	75	40	125	19	7	18	11	13	6
	(b) Chumbi	44·4	60·2	...	37·6	...	48·6	...	23·6	72·3	13·4	59·4	34·8	...	...	151	...	...	...	...	...	...
	Kermanshah	57·3	70·3	...	47·5	...	57·7	...	23·8	103·2	16·1	87·1	45·0	...	...	...	...	...	...	...	...	...
	(d) Koweit	...	89·9	...	70·7	...	(b) 93·3	...	(b) 19·2	116·8	43·1	73·7	(b) 39·7	4	8	2	2	7	7	38	71	
	¶ Maidan	...	100·5	...	54·6	...	67·1	...	45·9	131·0	31·9	99·1	(b) 48·6	7	6	...	3	1	6	71	82	7

(b)=Observations of 7 months.
(c)=Mean of 11 months.
(d)=Observations of 5 months.
(e)=Observations of 3 months.
¶ „ „ 8 months.
(a) „ „ 11 months.

(b) Mean of 3 months.

C.

fourth class stations in India, etc., in the year 1908.

Wind velocity.			Hygrometry, 8hrs.				Cloud.		Rainfall.						Heaviest rainfall during the year.	Station.
Mean velocity in miles per hour.	Normal.	Percentage departure from normal.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Total rainfall for the year.	Normal rainfall for the year.	Departure from normal of year.		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
																II.—Eastern Bengal and Assam.
...	...	...	94	...	·675	...	...	...	106	...	...	78·12	...	...	3·58	Bishnath.
...	...	...	86	...	·674	...	...	...	93	...	...	68·45	...	...	3·70	Borjuli.
...	...	...	88	...	·716	...	...	...	131	...	...	95·97	...	...	4·39	Chandkhira.
...	...	...	94	...	·655	...	...	...	109	...	...	97·48	...	...	4·24	Doom Dooma.
...	...	...	92	...	·667	...	...	...	119	...	...	104·92	...	...	4·68	Dikom.
...	...	...	90	...	·704	...	...	...	99	...	...	59·62	...	...	2·90	Golaghat.
...	...	...	93	...	·677	...	...	...	120	...	...	105·91	...	...	5·10	Hailakandi.
...	...	...	89	...	·686	...	...	...	104	...	...	75·31	...	...	4·00	Jorehat.
...	...	...	79	...	·704	...	...	...	96	...	...	84·06	...	...	5·99	Mesa.
...	...	...	92	...	·595	...	...	...	80	...	...	50·74	...	...	3·22	Panerihat.
...	...	...	86	...	·720	...	...	...	113	...	...	84·02	...	...	3·24	Srimangal.
...	...	...	84	...	·752	...	...	...	84	...	...	53·60	...	...	4·53	Brahmanbaria.
...	...	...	90	...	·634	...	...	...	118	...	...	140·09	...	...	4·15	Dam Dim.
...	...	...	80	...	·737	...	...	...	77	...	...	41·32	...	...	3·80	Goalundo.
...	...	...	79	...	·702	...	...	...	97	...	...	126·52	...	...	6·97	Kalchini.
...	...	...	81	...	·644	...	...	...	122	...	...	136·44	...	...	8·00	Nagrakata.
...	...	...	79	...	·740	...	...	...	71	...	...	59·48	...	...	6·34	Pabna.
																III.—Bengal.
...	...	...	62	...	·820	...	...	...	55	...	...	§ 51·86	...	...	7·60	Fraserganj. K.
																XI.—Central Provinces.
(j) 3·4	...	...	73	...	·581	...	...	...	47	...	...	30·54	...	...	2·25	Chindwara.
																Hill Stations.
...	...	...	67	...	·598	...	...	...	105	...	...	119·21	...	...	5·95	Panighatta.
...	...	...	77	...	·433*	...	...	...	122	...	...	138·69	...	...	5·94	Kurseong.
...	...	...	...	...	...	...	3·8	...	30	...	...	15·03	18·56	−2·53	3·14	Poo. M.
...	...	...	52	...	·213	...	3·5	...	27	...	...	10·47	...	...	1·20	Kargil. N.
...	...	...	60	...	·202	...	2·4	...	45	...	...	21·04	...	...	2·60	Killa Drosh. O.
...	...	...	...	...	...	...	1·2	...	14	23·20	−9·20	5·18	9·93	−4·80	0·88	Pishin.
...	...	...	53	...	·254	...	0·5	...	16	19·50	−3·50	6·96	5·79	+1·17	0·76	Kalat.
																Extra India.
...	...	...	...	...	...	...	(i) 3·2	...	3	...	...	II 0·65	...	...	0·28	Ahwaz (f).
(g) 94	...	...	41 (g) 93	...	·187 (g) ·322	...	2·3	...	16	...	...	6·90	...	...	0·68	Birjand. P.
...	...	...	53	...	·239	...	...	...	44	...	...	13·91	...	...	0·93	Chumbi. Q.
...	...	...	...	...	...	...	...	...	36	...	...	15·44	...	...	1·30	Kermanshah.
...	...	...	...	...	...	...	1·8	...	3	...	...	† 1·06	...	...	0·31	(d) Koweit. R.
...	...	...	...	...	...	...	0·9	...	7	...	...	† 2·63	...	...	1·06	Maidan. S.

(f) Wind observations of 35 days. (a)=Observations of 11 months.
(g)=Mean of 6 months.
* =Total rainfall from 1st August.
† =Total rainfall from 1st May.
§ Total rainfall for July and from 26th to 31st October not included.
II Total rainfall from 1st October.
(j)=Mean of 5 months.
(i)=Mean of 1 month.
(d)=Observations of 5 months.

K= Wind observations of 316 days.
M= " " of 102 days.
N= " " of 344 days.
O= " " of 74 days.
P= " " of 303 days.
Q= " " of 151 days.
R= " " of 147 days. Wind variable 1.
S= " " of 184 days. " " 1.

Addenda sheet of 8 hrs. Observations in Table B of 1907, Monthly Weather Review.

Addenda sheet of 8 hrs. Observations in

Number of sub-division.	Station.	Elevation of bar. cistern above sea-level, in feet.	Pressure, 8 h., in inches.								Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure recorded during month.	Date.	Lowest pressure recorded during month.	Date.	Total range of pressure during month.	Mean of 8 hrs. temperature.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	October 1907.																						
	Kerman* ...	...	...	...	...	...	...	...	...	...	49·3	77·6	...	46·7	...	62·2	...	30·9	84·0	26th and 27th.	34·5	23rd	49·5
	November 1907.																						
	Kerman ...	...	...	...	...	...	...	...	...	...	42·9	71·1	...	(a) 40·4	...	(a) 55·8	...	30·7	82·0	7th, 8th and 9th.	29·5	29th	52·5
	December 1907.																						
	Kerman ...	...	...	...	...	...	...	...	...	...	34·9	65·4	...	(b) 33·1	...	(b) 49·2	...	32·3	81·0	20th	20·5	30th	60·5

* Observations of 17 days.
(a) Mean of 28 days.
(b) „ „ 30 „

Table B of 1907, Monthly Weather Review.

Wind Direction.										Wind velocity.			Wind Steadiness.		Hygrometry, 8 hrs.			Cloud.		Rainfall.										Station.
Number of winds from																													
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Mean velocity in miles per hour.	Normal.	Percentage departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal in inches of mercury.	Mean clouc amount at 8 hrs.	Departure from normal.	Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall.	Normal rainfall.	Departure from normal.	Heaviest rainfall during month.	
25	20	27	2	1	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																	October 1907.
...	2	6	1	1	2	3	...	2	N34°E	...	4·8	...	...	24	...	50	...	·175	...	0	...	...	...	...	...	...	...	...	...	...	...	Kerman.
																																	November 1907.
...	11	9	...	1	2	3	2	2	N8°E	...	(a) 1·2	...	...	47	...	59	...	·137	...	0	...	...	...	...	...	...	...	...	...	...	...	Kerman.
																																	December 1907.
...	18	2	3	1	...	2	3	2	N3°W	...	1·0	...	...	61	...	53	...	·105	...	1·4	...	...	...	...	...	...	...	...	...	...	...	Kerman.

Addenda sheet of 10 hrs. and 16 hrs. observations in Table A of 1908, Monthly Weather Review.

Addenda sheet of 10 hrs. and 16 hrs. observations

Number of sub-division.	Station.	Elevation of bar-cistern above sea-level, in feet.	Pressure.						Temperature of Air.										Temperature, Wet-bulb.			
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressure.	Departure from normal.	Mean reduced to 32° F. and gravity at Lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	January 1908.																					
	Diego Garcia§‡ ...	...	29·935	29·853	·082	29·894	...	...	85·0	(a) 77·3	7·7	86·8	74·0	12·8	81·4	82·2	(a) 81·2	...	...	76·7	77·2	...
	February 1908.																					
	Diego Garcia§‡ ...	...	29·885	29·812	·073	29·848	...	...	84·5	(b) 76·2	8·3	86·0	72·0	14·0	80·7	81·4	(b) 80·9	...	...	76·6	77·4	...
	March 1908.																					
	Diego Garcia§‡ ...	...	29·921	29·848	·073	29·884	...	...	85·3	77·6	7·7	87·6	74·0	13·6	81·5	82·7	81·4	...	...	77·2	77·7	...
	April 1908.																					
	Diego Garcia§‡ ...	...	(c) 29·899	(b) 29·820	·079	(b) 29·860	...	...	(b) 86·0	(c) 79·3	7·7	87·1	74·0	12·5	(c) 82·4	(b) 83·2	(b) 82·2	...	...	(c) 77·3	(b) 77·0	...
	May 1908.																					
	Diego Garcia§‡ ...	...	29·854	29·785	·069	29·820	...	...	85·3	77·9	7·4	87·0	74·7	12·3	82·1	82·4	81·6	...	...	76·3	76·4	...

(a) Mean of 30 days. (b) Mean of 26 days. (c) Mean of 28 days.
§ Observations of 9 hrs. and 15 hrs. ‡ Readings uncorrected.

in Table A of 1908, Monthly Weather Review.

Vapour tension in inches of mercury.					Humidity.				Cloud.				Wind Direction.													Wind steadiness.		Wind velocity.		Rainfall.		Station.	Number of sub-division.
													Total numbers of 10 hrs. and 16 hrs. winds, from																			
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Means of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal mean wind direction of month.	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
																															JANUARY 1908.	
...	·861	·873	...	...	...	80	79	...	...	4·9	5·1	5·0	...	2	6	...	2	6	5	3	15	21	N36°W	...	45	...	120	...	11·89	4·77	Diego Garcia	...
																															FEBRUARY 1908.	
...	·861	·861	...	...	...	83	83	...	...	6·2	7·1	7·0	...	...	5	5	1	1	1	8	14	23	N60°W	...	61	...	168	...	19·12	3·06	Diego Garcia	...
																															MARCH 1908.	
...	·877	·882	...	...	...	81	79	...	...	(a) 5·4	5·4	5·4	...	1	6	3	6	16	1	...	10	20	N26°W	...	16	...	96	...	10·09	3·49	Diego Garcia	...
																															APRIL 1908.	
...	(c) ·869	(b) ·850	...	...	...	(c) 70	(b) 75	...	...	(c) 4·4	(c) 3·7	4·1	...	3	2	3	15	22	6	2	1	...	S56°E	...	66	...	(d) 120	...	5·63	1·65	Diego Garcia*	...
																															MAY 1908.	
...	·833	·829	...	...	...	76	75	...	...	4·1	4·3	4·3	...	...	...	2	6	45	9	...	...	...	S45°E	...	90	...	148	...	7·37	2·09	Diego Garcia	...

(d) Mean of 27 days. * Wind observations less 6.

Addenda sheet of 8 hrs. observations in Table B of 1908, Monthly Weather Review.

Addenda sheet of 8 hrs. observations in Table

Number of sub-division.	Station.	Elevation of bar-eistern above sea-level in feet.	Pressure, 8 h., in inches.								Temperature on air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level & to constant gravity at 45° Lat.	Highest pressure recorded during month.	Date.	Lowest pressure recorded during month.	Date.	Total range of pressure during month.	Mean of 8 hrs. temperature.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	JANUARY 1908.																					
	Kerman	...	...	...	...	...	...	...	...	...	38·6	59·9	...	(c) 32·3	...	(c) 46·5	...	27·6	69·0	13th	20·0	11th	49·0
	FEBRUARY 1908.																					
	Kerman	...	...	...	...	...	...	...	...	...	36·6	61·8	...	(a) 30·2	...	(a) 46·2	...	31·6	72·4	24th	13·5	18th	59·9
	MARCH 1908.																					
	Kerman	...	...	...	...	...	...	...	...	...	42·5	64·4	...	35·6	...	50·0	...	28·9	82·3	25th	12·5	7th	69·8
	APRIL 1908.																					
	Kerman	...	...	...	...	...	...	...	...	...	57·9	78·0	...	47·9	...	62·9	...	30·1	89·1	30th	31·4	11th	57·7
	MAY 1908.																					
	Kerman	...	...	...	...	...	...	...	...	...	68·6	88·1	...	52·0	...	70·1	...	36·1	97·3	24th	38·0	12th	59·3
	JUNE 1908.																					
	Kerman	...	...	...	...	...	...	...	...	...	77·6	97·4	...	60·6	...	79·0	...	36·8	106·3	25th	48·8	18th	57·5
	JULY 1908.																					
	Kerman	...	...	...	...	...	...	...	...	...	78·5	102·2	...	61·9	...	82·1	...	40·3	106·9	21st	50·5	1st	59·3
	AUGUST 1908.																					
	Kerman	...	...	...	...	...	...	...	...	...	69·5	98·1	...	55·6	...	76·9	...	42·5	105·2	4th	37·6	29th	67·6
	SEPTEMBER 1908.																					
	Kerman	...	...	...	...	...	...	...	...	...	57·3	89·1	...	45·8	...	67·5	...	43·3	98·3	27th	37·9	9th	60·4
	Zanzibar Pungas§	154	29·942	...	30·027	29·975	26th	29·926	22nd, 24th & 27th	·050	74·0	82·3	...	72·8	...	77 5	...	9·5	85·0	18th, 20th & 27th	70·8	15th 19th to 21st & 26th	14·2
	OCTOBER 1908.																					
	Amini Divi	13	29·912	−·018	29·853	29·993	17th	29 740	24th	·253	82·0	87·7	+2·5	76·5	0	82·1	+1·3	11·2	99·7	18th	71·6	23rd	19·1
	Kerman	...	...	...	...	...	...	...	...	...	51·0	84·0	...	41·5	...	62 8	...	42·5	94·0	4th	32·0	18th	62·0
	NOVEMBER 1908.																					
	Kerman	...	...	...	...	...	...	...	...	...	39·2	73·6	...	32·2	...	52·9	...	41·4	81·3	4th	27·5	24th	53·8
	Amini Divi	13	29·961	0	29·902	30·029	10th	29·802	3rd	·227	81·7	86·7	+1·7	74·4	−1·1	80·6	+0·3	12·3	89·0	1st	68·5	19th	20 5
	DECEMBER 1908.																					
	Kerman	...	...	...	...	...	...	...	...	...	36·1	61·6	...	29·7	...	45·7	...	31·9	74·3	16th	15·7	22nd	58·6

N.B.—Elevations in italics indicate barometrical determinations.

NOTE.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

§ Observations of 23 days.

(a) Mean of 28 days.
(b) „ „ 30 „
(c) „ „ 22 „
(d) „ „ 3 „
(e) „ „ 21 „

B of 1908, Monthly Weather Review.

Wind Direction.										Wind velocity.			Wind Steadiness.	Hygrometry, 8 hrs.				Cloud.		Rainfall.								Station.
Number of winds from																												
Calms.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Mean velocity in miles per hour.	Normal.	Percentage departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Rainfall.	Normal rainfall.	Departure from normal.	Heaviest rainfall during month.	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																JANUARY 1908.
...	11	...	...	...	1	...	7	6	4	N62°W	...	2·7	...	...	55	...	(a) 64	...	(a) ·144	...	3·2	...	...	...	...	...	...	...	...	...	...	Kerman.
																																FEBRUARY 1908.
...	11	1	1	2	2	3	6	3	N41°W	...	4·4	...	...	35	...	60	...	·124	...	1·5	...	...	...	...	...	...	...	...	...	...	...	Kerman.
																																MARCH 1908.
...	14	...	5	1	3	2	4	2	N6°W	...	3·3	...	...	32	...	(b) 57	...	(b) ·173	...	3·5	...	...	...	...	...	...	...	...	...	...	...	Kerman.
																																APRIL 1908
...	5	...	7	4	4	5	3	1	S31°E	...	3·3	...	...	21	...	38	...	·181	...	1·5	...	...	...	...	...	...	...	...	...	...	...	Kerman.
																																MAY 1908.
...	10	3	3	1	4	5	2	3	N18°W	...	3·5	...	...	19	...	28	...	·136	...	0·4	...	...	...	...	...	...	...	...	...	...	...	Kerman.
																																JUNE 1908.
...	12	7	1	...	4	3	2	1	N5°E	...	3·9	...	...	40	...	21	...	·195	...	0·7	...	...	...	...	...	...	...	...	...	...	...	Kerman.
																																JULY 1908.
...	11	3	5	1	3	2	4	2	N6°E	...	2·7	...	...	29	...	25	...	·246	...	0·5	...	...	...	...	...	...	...	...	...	...	...	Kerman.
																																AUGUST 1908
...	16	2	2	...	...	2	3	6	N14°W	...	2·5	...	...	68	...	28	...	·208	...	0	...	...	...	...	...	...	...	...	...	...	...	Kerman.
																																SEPTEMBER 1908.
...	12	5	2	1	2	1	2	5	N	...	2·3	...	...	52	...	35	...	·163	...	0	...	...	...	...	...	...	...	...	...	...	...	Kerman.
											(d)																(f)				
...	...	...	...	...	6	16	...	...	S33°W	...	10·5	...	...	91	...	94	...	·287	...	...	...	3	...	...	1·24	...	...	23·23	...	...	0·55	Zanzibar Dunga.
																																OCTOBER 1908.
4	3	9	1	...	1	1	3	9	N12°W	...	...	...	...	47	...	77	—5	·812	—·044	5·2	—0·9	8	...	...	5·98	6·01	—0·03	(g) 57·14	43·74	+13·40	1·59	Amini Devi.
...	14	2	3	3	4	1	2	2	N11°E	...	2·0	...	...	32	...	36	...	·136	...	0·2	...	...	...	...	...	...	...	...	...	...	...	Kerman.
																																NOVEMBER 1908.
...	9	5	10	1	...	2	...	3	N40°E	...	1·2	...	...	57	...	(a) 48	...	(a) ·122	...	0·0	...	...	...	...	...	...	...	...	...	...	...	Kerman.
9	7	4	...	...	...	...	1	9	N17°W	...	...	...	...	57	...	70	—8	·754	—·104	3·0	—1·6	0	...	...	0·04	1·58	—1·54	(h) 67·18	45 32	+11·86	0·04	Amini Divi.
																																DECEMBER 1908.
...	6	2	9	3	6	3	...	2	S84°E	...	2·1	...	...	29	...	(c) 62	...	(c) ·163	...	2·1	...	...	...	...	...	...	...	...	...	...	...	Kerman.

(*f*) Total rainfall since 1st May to 30th September 1908.
(*g*) ,, ,, ,, 1st May to 31st October 1908.
(*h*) ,, ,, ,, 1st May to 30th November 1908.

Addenda sheet of 8 hrs. observations in Table C. of 1908 Monthly Weather Review.

Addenda sheet of 8 hrs. observations in Table

Number of sub-division.	Station.	Temperature of air. Mean of 8 hrs. temperature.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	January 1908.													
	Kermanshah	41·1	40·5	...	35·1	...	42·3	...	14·4	65·2	17th	20·9	9th	44·3
	February 1908.													
	Kermanshah	40·8	46·1	...	33·0	...	39·6	...	13·1	60·0	23rd	16·1	16th	43·9
	March 1908.													
	Kermanshah	46·3	52·4	...	36·6	...	44·5	...	15·8	64·2	26th	21·5	4th and 5th	42·7
	April 1908.													
	Kermanshah	54·1	66·2	...	43·1	...	54·7	...	23·1	79·4	23rd	32·2	9th and 10th	47·2
	May 1908.													
	Chumbi †	48·7*	50·1*	...	36·6	...	47·9	...	22·5	60·8	4 days	30·4	4 days	30·4
	Kermanshah	59·7	73·9	...	48·4	...	61·2	...	25·5	91·6	17th	39·0	16th	52·6
	June 1908.													
	Kermanshah	71·9	89·6	...	59·7	...	74·6	...	29·9	101·4	30th	54·0	20th	47·4
	July 1908.													
	Fraserganj‡	83·4	...	...	...	...	...	...	...	...	...	...	...	...
	Chumbi	59·8*	68·7*	...	51·0	...	59·9	...	17·7	73·4	21st	43·1	17th	30·3
	Kermanshah	70·5	86·3	...	57·6	...	82·0	...	28·7	103·2	31st	61·4	17th	41·8
	October 1908.	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fraserganj§	83·2	...	...	...	...	...	...	...	...	...	...	...	...
	Kermanshah	57·4	74·3	...	43·4	...	61·3	...	25·9	89·0	1st	40·4	12th	48·6

* Uncorrected for scale error.
† Observations of 22 days.
‡ ,, ,, 10 hrs. and 21 days only.
§ Observations of 25 days.

C of 1908, Monthly Weather Review.

Winds Direction. Number of winds from. Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity miles per hour.	Normal.	Percentage departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal in inches of mercury.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Actual rainfall.	Normal rainfall.	Departure from normal.	Heaviest rainfall during month.	Station.
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																																JANUARY 1908.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	74	...	·199	...	...	...	5	...	...	1·50	...	...	(a) 1·50	...	...	0·51	Kermanshah.
																																FEBRUARY 1908.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	58	...	·152	...	...	...	0	...	...	0·08	...	...	(a) 1·58	...	...	0·08	Kermanshah.
																																MARCH 1908.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	71	...	·233	...	...	...	9	...	...	3·65	...	...	(a) 5·23	...	...	0·72	Kermanshah.
																																APRIL 1908.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	49	...	·207	...	...	...	6	...	...	3·60	...	...	(a) 8·83	...	...	1·05	Kermanshah.
																																MAY 1908.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	89	...	·305	...	...	...	9	...	...	3·13	...	...	(b) 3·13	...	...	0·93	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	55	...	·284	...	...	...	3	...	...	0·93	...	...	(b) 0·93	...	...	0·37	Kermanshah.
																																JUNE 1908.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	41	...	·319	...	...	...	2	...	...	0·91	...	...	(b) 1·84	...	...	0·65	Kermanshah.
																																JULY 1908.
...	4	...	...	17	...	...	...	...	S	...	...	...	...	43	...	90	...	1·025	...	...	...	9	...	...	6·51	...	...	(c) 30·06	...	...	2·40	Fraserganj.
...	...	31	...	...	...	...	...	...	N45°E	...	...	...	...	100	...	88	...	·451	...	...	...	13	...	...	4·01	...	...	(d) 7·14	...	...	0·49	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	31	...	·304	...	...	·9	0	...	...	0	...	...	(b) 1·84	...	...	0	Kermanshah.
																																OCTOBER 1908.
10	...	...	...	10	...	5	...	...	W	...	...	...	...	20	...	77	...	·275	...	...	...	5	...	...	4·15	...	...	57·79	...	...	1·70	Fraserganj.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	47	...	·222	...	...	...	1	...	...	0·17	...	...	2·01	...	...	0·17	Kermanshah.

(a) Total rainfall since 1st January 1908.
(b) " " " 1st May "
(c) Total rainfall since 1st May to 31st July 1908.
(d) " " of May and July 1908.

Corrigenda in the India Monthly Weather Reviews for the year 1908.

TEXT.

Page.	Column.	Part.	Correction.
3	1	January 1908 .	*For* " 10th " *read* " 11th " in column 1 of the 2nd tabular statement.
6	1	Ditto .	*For* " + ·036 " *read* " + ·037 " against Burma in the figure column 1 of the first tabular statement.
6	2	Ditto .	*For* "—0·22 " *read* "—·022 " against Lahore in the figure column 4 of the first tabular statement.
9	1	Ditto .	*For* " Meams " *read* " Means " in the 10th line of paragraph 13.
11	...	Ditto .	*For* " 1·8, 0·92, +0·50 and + 119 " *read* " 1·9, 1·02, + 0·60 and + 143 " respectively against Bengal in the figure columns Nos. 1, 3, 5 and 6 of the tabular statement.
11	...	Ditto .	*For* " 2·6, 1·44, +1·18 and +454 " *read* " 2·4, 1·40, +1·14 and + 438 " respectively against Orissa in the figure columns Nos. 1, 3, 5 and 6 of the tabular statement.
11	...	Ditto .	*For* " 1·1, 0·65, + 0·14 and + 27 " *read* " 1·0, 0·60, + 0·09 and +18 respectively against Chota Nagpur in the figure columns Nos. 1, 3, 5 and 6 of the tabular statement.
12	1	Ditto .	*For* " 0·86, + 0·36 and + 72 " *read* " 0·89, + 0·39 and + 78 " respectively against Bengal in the figure columns 1·3 and 4 of the first tabular statement.
12	2	Ditto .	*For* " 0·63, + 0·19 and + 43 " *read* " 0·65, + 0·21 and + 48 " respectively against mean of India in the figure columns Nos. 1, 3, and 4 of the first tabular statement.
17	2	February 1908 .	*For* " Pyheliometer " *read* " Pyrheliometer " in line 3 under " Solar Radiation ".
22	...	Ditto .	*For* " 0·37,—0·49 and—57 " *read* " 0·39,—0·47 and —55 " respectively against Bengal in the figure columns Nos. 3, 5 and 6 of the tabular statement.
22	...	Ditto .	*For* " 1·60, + 0·84 and +111 " *read* " 1·62, + 0·86 and +113 " respectively against Chota Nagpur in the figure columns Nos. 3, 5 and 6 of the tabular statement.
22	...	Ditto .	*For* " 1·61, + 1·06 and + 103 " *read* " 1·59, + 1·04 and + 139 respectively against Bihar in the figure columns Nos. 3, 5 and 6 of the tabular statement.
23	1	Ditto .	*For* " 0·89, + 0·16 and + 22 " *read* " 0·90, + 0·17 and + 23 " respectively against Bengal in the figure columns Nos. 1, 3 and 4 of the 2nd tabular statement.
24	1	Ditto .	*For* " Savaj " *read* " Saraj " in the heading of the 2nd tabular statement.
35	...	March 1908 .	*For* " 0·63,—0·46 and—42 " *read* " 0·62,—0·47 and—43 " respectively against Orissa in the figure columns Nos. 3, 5 and 6 of the tabular statement.
35	...	Ditto .	*For* " 0·17,—0·54 and—76 " *read* " 0·16,—0·55 and—77 " respectively against Chota Nagpur in the figure columns Nos. 3, 5 and 6 of the tabular statement.
35	...	Ditto .	*For* " 0·23,—0·13 and —86 " *read* " 0·22, —0·14 and —39 " respectively against Bihar in the figure columns Nos. 3, 5 and 6 of the tabular statement.
35	...	Ditto .	*For* " ·06 " *read* " 0·06 " against Rajputana East in the figure column 3 of the tabular statement.
46	...	April 1908 .	*For* " 0·4, 0·23, —0·99 and —81 " *read* " 0·5, 0·24, —0·98 and —80 " respectively against Orissa in the figure columns Nos. 1, 3, 5 and 6 of the tabular statement.
55	...	May 1908 .	*For* " 6·8, 4·05, —0·86 and —18 " *read* " 6·7, 3·98, —0·93 and —19 " respectively against Bengal in the figure columns Nos. 1, 3, 5 and 6 of the 2nd tabular statement.
55	...	Ditto .	*For* " 1·93, —1·53 and —44 " *read* " 1·99, —1·47 and —42 " respectively against Orissa in the figure columns Nos. 3, 5 and 6 of the 2nd tabular statement.
55	...	Ditto .	*For* " 4·4, 1·86, —0·44 and —19 " *read* " 4·3, 1·91, —0·39 and —17 " respectively against Chota Nagpur in the figure columns Nos. 1, 3, 5 and 6 of the 2nd tabular statement.

Corrigenda in the India Monthly Weather Reviews for the year 1908.

TEXT.

Page.	Column.	Part.	Correction.
55	...	May 1908 .	*For* " 2·4, 1·33, —0·89 and —40 " *read* " 2·5, 1·35, —0·87 and —39 " respectively against Bihar in the figure columns Nos. 1, 3, 5 and 6 of the 2nd tabular statement.
56	...	Ditto .	*For* " 3·07 " *read* " 3·67 " against Mysore in the figure column No. 4 of the first tabular statement.
66	...	Ditto .	*For* " 2·53, —0·91 and —26 " *read* " 2·50, —0·94 and —27 " respectively against Bengal in the figure columns Nos. 1, 3 and 4 of the 2nd tabular statement.
66	...	June 1908 .	*For* " 9·7, 8·13, —1·09 and —12," *read* " 10·2, 8·63, —0·59 and —6 " respectively against Chota Nagpur in the figure columns Nos. 1, 3, 5 and 6 of the tabular statement.
66	....	Ditto .	*For* " 5·5, 3·37 and —4·57 " *read* " 5·4, 3·36, and —4·58 " respectively against Bihar in the figure columns Nos. 1, 3 and 5 of the tabular statement.
66	...	Ditto .	*For* " 8·2, 7·80, 5·67, +2·13 and +38 " *read* " 8·1, 7·72, 5·57, +2·15 and +39 " respectively against Berar in the figure columns Nos. 2, 3, 4, 5 and 6 of the tabular statement.
66	...	Ditto .	*For* " 7·0, 8·7, 6·34, 7·26, —0·92 and —13 " *read* " 6·9, 8·6, 6·20, 7·17, —0·97 and —14 " respectively against the Central Provinces West in the figure columns Nos. 1, 2, 3, 4, 5 and 6 of the tabular statement.
66	...	Ditto .	*For* " 9·10 and +0·64 " *read* " 9·18 and +0·67 " respectively against the Central Provinces East in the figure columns Nos. 3 and 5 of the tabular statement.
67	2	Ditto .	*For* " 7·56, 6·87 and +0·69 " *read* " 7·47, 6·81 and +0·66 " respectively against the Central Provinces in the figure columns Nos. 1, 2, and 3 of the tabular statement.
70	1	July 1908 .	*Omit* " 4 " from the 1st line.
70	1	Ditto .	*Insert* " 4 " in the beginning of the 2nd line under the heading of Bombay Observatory.
75	...	Ditto .	*For* " 9·4, 7·37, —5·76 and —44 " *read* " 9·2, 7·28, —5·85 and —45 " respectively against Bihar in the figure columns Nos. 1, 3, 5 and 6 of the tabular statement.
75	...	Ditto .	*For* " 14·7, 12·2, 9·90, 9·35, +0·55 and +6 " *read* " 14·4, 12·0, 9·60, 9·12, +0·48 and 5 " respectively against Berar in the figure columns Nos. 1, 2, 3, 4, 5 and 6 of the tabular statement.
75	...	Ditto .	*For* " 19·9, 15·5, 15·41, 14·71, +0·70 and +5 " *read* " 19·7, 15·3, 16·11, 14·40 +1·71 and + 12 " respectively against the Central Provinces West in the figure columns Nos. 1, 2, 3, 4, 5 and 6 of the tabular statement.
75	...	Ditto .	*For* " 21·5, 18·12, +1·48 and +9 " *read* " 21·9, 18·61, +1·97 and +12 " respectively against the Central Provinces East in the figure columns Nos. 1, 3, 5 and 6 of the tabular statement.
76	...	Ditto .	*For* " 11·54, —1·32 and —10 " *read* " 11·44, —1·42, and —11 " respectively against Bengal in the figure columns Nos. 1, 3 and 4 of the 2nd tabular statement.

Corrigenda in the India Monthly Weather Reviews for the year 1908.

TEXT.

Page.	Column.	Part.	Correction.
76	2	July 1908 . .	*For* " 13·75, 12·94, +0·81 and +6" *read* " 14·01, 12·75, +1·26 and +10 " respectively against the Central Provinces in the figure columns Nos. 1, 2, 3, and 4 of the 2nd tabular statement.
76	2	Ditto . .	*For* " 12·90, 11·15 and +1·75 " *read* " 12·91, 11·13 and +1·78 " respectively against mean of India in the figure columns Nos. 1, 2 and 3 of the 2nd tabular statement.
86	...	August 1908 .	*For* " 14·51, +1·16 and +9 " *read* " 14·45, +1·10 and +8 " respectively against Chota Nagpur in the figure columns Nos. 3, 5 and 6 of the tabular statement.
86	...	Ditto . .	*For* " 8·9, 6·44, —5·59 and —46 " *read* " 8·8, 6·38, —5·65 and —47 " respectively against Behar in the figure columns Nos. 1, 3, 5 and 6 of the tabular statement.
86	...	Ditto . .	*For* " 14·3, 10·3, 9·91, 3·94, +2·97 and +43 " *read* " 14·6, 10·1, 9·64, 6·68, +2·96 and +44 " respectively against Berar in the figure columns Nos. 1, 2, 3, 4, 5 and 6 of the tabular statement.
86	...	Ditto . .	*For* " 15·99, +4·21 and +36 " *read* " 15·96, +4·18 and +35 " respectively against the Central Provinces West in the figure columns Nos. 3, 5 and 6 of the tabular statement.
86	...	Ditto . .	*For* " 22·02, +8·05 and +58 " *read* " 21·94, +7·97 and +57 " respectively against the Central Provinces East in the figure columns Nos. 3, 5 and 6 of the tabular statement.
87	1	Ditto . .	*For* " 10·94, and —1·25 " *read* " 10·92 and —1·27 " respectively against Bengal in the figure columns Nos. 1 and 3 of the 2nd tabular statement.
87	2	Ditto . .	*For* " 14·81, 10·26 and +4·55 " *read* " 14·72, 10·19 and +4·53 " respectively against the Central Provinces in the figure columns Nos. 1, 2 and 3 of the 2nd tabular statement.
93	2	September 1908.	*For* " —·009 " *read* " +·009 " against Peshawar in the figure column No. 2 of the 2nd tabular statement.
94	...	Ditto . .	*For* " 58·6, 74·9, 32·5, —1·5 and +0·3 " *read* " 58·5, 74·8, 32·6, —2·0 and +0·8 " respectively against Baluchistan in the figure columns Nos. 2, 3, 4, 7 and 8 of the 2nd tabular statement.
96	1	Ditto .	*For* " 6·75, —2·57 and —28 " *read* " 6·77, —2·55 and —27 " respectively against Bengal in the figure columns Nos. 1, 3, and 4 of the first tabular statement.
96	2	Ditto .	*For* " 9·5, 7·23, 9·77 and —2·54 " *read* " 9·3, 7·18, 9·75 and —2·57 " respectively against Bengal in the figure columns Nos. 1, 3, 4 and 5 of the tabular statement.
96	2	Ditto .	*For* " 7·99, —1·80 and —18 " *read* " 8·09, —1·70 and —17 " respectively against Orissa in the figure columns Nos. 3, 5 and 6 of the tabular statement.
96	2	Ditto .	*For* " 5·91, —3·12 and —35 " *read* " 5·93, —3·10 and —34 " respectively against Bihar in the figure columns Nos. 3, 5 and 6 of the tabular statement.
102	1	October 1908 .	*For* " Radaian " *read* " Radiation " in the first line.
103	2	Ditto .	*For* " +·006 " *read* " +·003 " against Khandwa in the figure column No. 2 of the 2nd tabular statement.
104	2	Ditto .	*For* " 81·2, 46·4, 63·9, 34·3, 58·0, +0·4, —4·2 and +4·6 " *read* " 84·1, 53·9, 69·0, 30·2, 56·9, —0·1, —1·5 and +1·4 " respectively against Baluchistan in the figure columns Nos. 1, 2, 3, 4, 5, 6, 7 and 8 of the tabular statement.
107	1	Ditto .	*For* " 1·08, —2·45, and —69 " *read* " 1·07, —2·46 and —70 " respectively against Bengal in the figure columns Nos. 1, 3 and 4 of the first tabular statement.
107	1	Ditto .	*For* " 0·25, —1·51 and —86 " *read* " 0·28, —1·48 and —84 " respectively against the Central Provinces in the figure columns Nos. 1, 3 and 4 of the 1st tabular statement.

Corrigenda in the India Monthly Weather Reviews for the year 1908.

TEXT.

Page.	Column.	Part.	Correction.
107	2	October 1908 .	*For* "1·3, 1·08, —1·69 and —61" *read* "1·2, 1·04, —1·73 and —62" respectively against Chota Nagpur in the figure columns Nos. 1, 3, 5 and 6 of the tabular statement.
107	2	Ditto. .	*For* "0·35, —1·74 and —67" *read* "0·34, —1·75 and —68" respectively against Bihar in the figure columns Nos. 3, 5 and 6 of the tabular statement.
107	2	Ditto .	*For* "0·5, 0·35, —1·35 and —79" *read* "0·6, 0·44, —1·26 and —74" respectively against the Central Provinces West in the figure columns Nos. 1, 3, 5 and 6 of the tabular statement.
111	2	November 1908	*For* "Magnetic Disturbance" *read* "Magnetic Disturbances" as the heading of the 2nd tabular statement, under paragraph 7.
112	2	Ditto . .	*For* "+·010" *read* "—·010" against Khandwa in the figure column No. 1 of the 2nd tabular statement.
114	...	Ditto . .	*For* "71·7, 39·1, 55·4, 32·6, 58·3, +1·1, —5·2 and +6·3" *read* "74·1, 46·0, 60·1, 28·1 58·0, —0·2, —3·5 and +3·3" respectively against Baluchistan in the figure columns Nos. 1, 2, 3, 4, 5, 6, 7 and 8 of the first tabular statement.
127	...	December 1908.	*For* "40·9" *read* "0·49" against North-West Frontier Province in the figure column No. 4 of the first tabular statement.

Corrigenda in the India Monthly Weather Reviews for the year 1908.

TABLES A, B AND C.

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
iii	January 1908.	A	Madras	Rainfall.	54	For "0·02" *read* "0·01."
iv	Do.	A	Pachmarhi	Temperature.	11, 14 and 15	For "43·7, 37·1 and 42·5" *read* "43·8, 37·6 and 42·0" respectively.
iv	Do.	A	Kodaikanal	Do.	13 and 15	For "70·2 and 27·8" *read* "73·2 and 30·8" respectively.
iv	Do.	A	Dodabetta	Pressure and Temperature.	7, 9 and 18	For "22·076, 22·013 and 52·3" *read* "22·070, 22·007, and 51·6" respectively.
v	Do.	A	Muktesar	Vapour tension, humidity and rainfall.	24, 29 and 53	For "·118, 54 and 3·06" *read* "·119, 55 and 3·04" respectively.
v	Do.	A	Pachmarhi	Vapour tension and rainfall.	24, 53 and 54	For "·209, 0 and 0" *read* "·208, 0·50 and 0·50" respectively.
v	Do.	A	Dodabetta	Vapour tension and humidity.	27 and 32	For "·259 and 67" *read* "·268 and 68" respectively.
ix	Do.	B	Tezpur	Rainfall.	49	For "— 0·20" *read* "+ 0·20."
xi	Do.	B	Allahabad	Wind direction	30	*Insert* "1."
xii	Do.	B	Jhansi	Elevation and pressure.	3, 5 and 6	For "835, + ·032 and 30·1242" *read* "824, + ·020 and 30·112" respectively.
xii	Do.	B	Pachpadra	Pressure	4, 5, 6, 7 and 9.	For "29·6722, — ·0272, 30·034 ?, 29·845 and 29·292" *read* "29·642, — ·057, 30·004, 29·815 and 29·269" respectively.
xiii	Do.	B	Delhi	Rainfall.	56	For "0·53" *read* "1·53."
xiii	Do.	B	Montgomery	Do.	52	For "— 0·38" *read* "— 0·48."
xiii	Do.	B	Bikaner	Do.	56	For "0·23" *read* "0·33."
xv	Do.	B	Indore	Wind velocity	36 and 38	*Reject* the readings for all the months from January to December 1908.
xvi	Do.	B	Aurangabad	Pressure	4	For "28·174" *read* "28·173."
xvi	Do.	B	Nizamabad	Do.	6	For "30·061" *read* "30·044."
xvi	Do.	B	Raichur	Do.	4, 5, 6, 7 and 9.	For "28·745, + ·032, 30·041, 28·857 and 28·565" *read* "28·740, + ·027, 30·036, 28·852 and 28·560" respectively.
xvi	Do.	B	Hassan	Do.	5 and 6	For "— ·027 and 30·054-I" *read* "+ ·031 and 30·051-I" respectively.
xvi	Do.	B	Periyakulam	.....	...	*Reject* the figures from all the columns.
xvi	Do.	B	Nellore	Elevation	3	For "61" *read* "66."
xvii	Do.	B	Periyakulam	.....	...	*Reject* the figures from all the columns, except rainfall.
xviii	Do.	B	Column No.	Station	2	*Insert* "2."
xviii	Do.	B	Gilgit	Do.	2	For "Gilghit" *read* "Gilgit."
xviii	Do.	B	Quetta	Temperature.	15 to 19	For "20·7, + 1·4, 42·6, + 2·3 and 23·8" *read* "30·5, + 1·2, 42·5, + 2·2 and 24·0" respectively.
xviii	Do.	B	Kailang	Pressure	4 and 6	For "20·931 and 20·936" *read* "20·992 and 20·941" respectively.
xviii	Do.	B	Sarain	Do.	4, 9 and 11	For "23·201, 22·991 and ·645" *read* "23·206, 23·041 and ·295" respectively.
xviii	Do.	B	Chakrata	Temperature.	13, 14, 17, 18 and 19.	For "56·4, + 5·3, 47·4, + 4·1 and 17·2" *read* "56·6, + 6·0, 47·3, + 4·2 and 18·1" respectively.

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Tables A, B and C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
xviii	January 1908.	B	Muktesar	Temperature	15, 17, 19, 22 and 24.	*For* "37·3†, 44·4 †, 14·8, 26·9 and 32·6" *read* "37·4 †, 44·5 †, 14·7, 27·0 and 32·5", respectively.
xviii	Do.	B	Darjeeling	Pressure	4, 5, 6, 7 and 9.	*For* "23·072, + ·058, 23·027, 23·183 and 22·926" *read* "23·082, + ·068, 23·037, 23·192, and 22·936" respectively.
xviii	Do.	B	Pachmarhi	Temperature	13 to 21 and 24.	*For* "72·1, + 0·3, 44·3, — 3·2, 58·2, — 1·2, 27·8, 78·7, 31st and 41·1" *read* "71·7, + 0·4, 43·8, — 3·7, 57·8, — 1·7, 27·9, 79·6, 10th and 42·0" respectively.
xx	Do.	B	Gyantse	Pressure	4 and 7 to 11	*Reject* the figures already given.
xx	Do.	B	Pharijong	Do.	4 and 7 to 11	*Reject* the figures already given.
xx	Do.	B	Kabul	Do.	4	*For* "24·371" *read* "24·354."
xx	Do.	B	Do.	Do.	6	*Insert* "—24·323."
xx	Do.	B	Aden	Temperature	16	*Insert* "0."
xx	Do.	B	Zanzibar	Do.	22 and 24	*For* "78·8 and 11·0" *read* "78·6 and 11·2" respectively.
xx	Do.	B	Column No.	.....	24	*For* "4" *read* "24."
xx	Do.	B	Ispahan (b)	Station	2	*Read* "Ispahan (b) ‡" and *insert* footnote as "‡ 7 hrs. observations."
xxviii	February 1908	A	Bombay	Temperature	18 and 19	*For* "76·4 and + 1·6" *read* "75·1 and + 0·8" respectively.
xxviii	Do.	A	Leh	Do.	16	*For* "24·6" *read* "24·9."
xxx	Do.	A	Muktesar	Do.	11, 12, 14, 15 and 18.	*For* "38·7, 15·2, 29·7, 33·0 and 46·1" *read* "38·9, 15·0, 29·6, 33·1 and 46·4" respectively.
xxxi	Do.	A	Do.	Vapour tension and humidity.	24, 27, 29 and 32.	*For* "·105†, ·139, 46† and 48" *read* "·102†, ·138, 45† and 47" respectively.
xxxv	Do.	B	Bogra	Rainfall	49	*For* "— 2·48" *read* "+ 2·48."
xxxviii	Do.	B	Jhansi	Elevation and pressure.	3, 5 and 6	*For* "835, — ·032? and 29·982?" *read*, "824, — ·044†, and 29·974?" respectively.
xviii	Do.	B	Pachpadra	Pressure	4, 5, 6, 7 and 9.	*For* "29·578?, — ·081?, 29·940?, 29·777 and 29·401" *read* "29·548, — ·051, 29·910, 29·747 and 29·371" respectively.
xli	Do.	B	Chanda	Hygrometry	42	*Insert* "— 7."
xlii	Do.	B	Nizamabad	Pressure	6	*For* "29·959" † *read* "29·922 †".
i	Do.	B	Raichur	Pressure	4, 5, 6, 7 and 9.	*For* "28·666 I, + ·009?, 29·945-I, 28·819 and 28·585" *read* "28·661 I, + ·004?, 29·940, I 28·814 and 28·580" respectively.
xli	Do.	B	Do.	Temperature	17	*For* "·794 I" *read* "79·4 I."
xlii	Do.	B	Nellore	Elevation	3	*For* "61" *read* "66."
iv	Do.	B	Dras	Temperature	15	*For* "— 15·6" *read* "— 3·6."
xliv	Do.	B	Muktesar	Do.	15, 17, 19, 22 and 24.	*For* "38·0, 46·0, 15·9, 29·4 and 33·1" *read* "38·6, 46·3, 15·8, 29·5 and 33·0" respectively.
xliv	Do.	B	Darjeeling	Do.	13, 14, 17, 18 and 19.	*For* "50·5, + 2·6, 44·0, + 2·2 and 13·1" *read* "50·9, + 3·0, 44·2, + 2·4 and 13·5" respectively.
xliv	Do.	B	Do.	Pressure	4, 5, 6, 7 and 9.	*For* "23·000, + ·015, 22·955, 23·152 and 22·899" *read* "23·010, + ·025, 22·965, 23·162 and 22·908" respectively.

Corrigenda in the India Monthly Weather Reviews for the year 1908—*contd.*

TABLES A, B AND C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
xliv	February 1908	B	Pachmarhi	Temperature	13, 14, 17, 18 and 19.	*For* "77·8, + 2·2, 64·1, + 0·6 and 27·5" *read* "77·0, + 1·5, 63·7, + 0·2 and 26·7" respectively.
xlv	Do.	B	Port Blair	Wind velocity	36	*For* "5·5‡‡" *read* "5·3‡‡."
xlvi	Do.	B	Gangtok	Pressure	4	*For* "24·488(c)" *read* "24·484(c)."
xlvi	Do.	B	Bahrein	Temperature	18, 17, 19, 20, 21 and 24.	*Reject* the figures already given.
xlvi	Do.	B	Ispahan (b)	Station	2	*Read* "Ispahan (b) ‡" and insert footnote as "‡ 7 hrs. observations."
xlvii	Do.	B	Jask	Wind direction	25	*For* "8" *read* "3."
xlvii	Do.	B	Bahrein	Hygrometry	43	*For* "·034" *read* "·403."
li	Do.	C	Birjand	Wind velocity	27	*For* "22·6[11 23]" *read* "9·4[11 23]."
lv	March 1908	A	Hyderabad	Rainfall	53 and 54	*For* "0 and 0" *read* "0·22 and 0·12" respectively.
lvi	Do.	A	Chikalda	Temperature wet-bulb.	21	*For* "53·9" *read* "55·9."
lvi	Do.	A	Kodaikanal	Pressure	7	*For* "22·857" *read* "22·859."
lx	Do.	B	Noakhali	Temperature	24	*For* "39·5" *read* "39·4."
lxi	Do.	B	Mandalay	Cloud	45	*Insert* "0."
lxiii	Do.	B	Sangor Island	Wind velocity	38	*For* "— 0·6" *read* "+ 0·6."
lxiii	Do.	B	Balasore	Wind direction	27	*Insert* "1."
lxiii	Do.	B	Chaibassa	Wind velocity	38	*For* "+ ·7" *read* "+ 1·7."
xliii	Do.	B	Muzaffarpur	Wind steadiness	39	*For* "1" *read* "14."
lxiv	Do.	B	Jhansi	Elevation and pressure.	3, 5 and 6	*For* "835, + ·039 and 29·958" *read* "824, + ·027 and 29·946" respectively.
lxiv	Do.	B	Pachpadra	Pressure	4, 5, 6, 7 and 9.	*For* "29·588, + ·028, 29·937, 29·728 and 29·440" *read* "29·553, — ·002, 29·907, 29·698 and 29·410" respectively.
lxiv	Do.	B	Udaipur	Temperature	15, 17, 19, 22 23 and 24.	*For* "53·3, 73·3, 29·9, 41·3, 11th and 62·2" *read* "55·5, 73·4, 29·7, 43·3, 1st and 60·2" respectively.
lxv	Do.	B	Rawalpindi	Rainfall	54	*Insert* "7·61."
lxvi	Do.	B	Nizamabad	Pressure	6	*For* "29·929 ††" *read* "29·912 ††."
lxvii	Do.	B	Surat	Wind velocity	38	*For* "—2·1" *read* "— 1·6."
xvii	Do.	B	Sutna	Do.	38	*For* "— 2·1" *read* "—2·0."
lxvii	Do.	B	Buldana	Rainfall	52	*For* "— 0·41" *read* "+ 0·41."
lxvii	Do.	B	Nagpur	Wind direction	30 and 31	*Reject* the figures already given.
lxviii	Do.	B	Raichur	Pressure	4, 5, 6, 7 and 9.	*For* "28·644, + ·038, 29·911, 28·741 and 28·563" *read* "28·639, + ·033, 29·906, 28·736 and 28·557 respectively.
lxviii	Do.	B	Madras	Temperature	15 to 19, 22 and 24.	*For* "71·0, — 1·2, 80·5, — 0·7, 18·2, 62·0 and 35·5" *read* "71·2, — 1·0, 80·6, — 0·6, 18·7, 62·5 and 35·0" respectively.
lxviii	Do.	B	Nellore	Elevation	3	*For* "61" read "66."

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TABLES A, B AND C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
lxx	March 1908 . .	B	Chitral . . .	Pressure and temperature.	4, 7, 8, 9, 10, 11, 15, 17, 19, 22, 23 and 24.	*Reject* the figures already given.
lxx	Do. . .	B	Muktesar . .	Temperature . .	15, 17, 19, 22 and 24.	*For* "44·1, 52·8, 17·4, 29·2 and 46·6" *read* "44·2, 52·9, 17·3, 30·0 and 46·5" respectively.
lxx	Do. . .	B	Darjeeling . .	Do. . .	15 to 19 and 22 to 24.	*For* "43·4, + 1·1, 50·7, + 1·3, 14·6, 30·7, 6th and 35·1" *read* "43·8, + 1·5, 50·9, + 1·5, 14·2, 35·2, 2nd and 30·6" respectively.
lxx	Do. . .	B	Do . . .	Pressure . .	4, 5, 6, 7 and 9.	*For* "23·089, + ·084, 22·995, 23·180 and 22·842" *read* "23·049, + ·044, 23·005, 23·190 and 22·852" respectively.
lxx	Do. . .	B	Pachmarhi . .	Temperature . .	15 to 19 and 22 to 24.	*For* "55·3, — 4·6, 69·1, — 3·3, 26·6, 42·1, 18th and 49·1" *read* "56·2, — 4·2, 69·3, — 3·1, 26·2, 42·6, 2nd and 48·6" respectively.
lxxi	Do. . .	B	Simla . . .	Hygrometry . .	44	*For* "·021" *read* "— ·021."
lxxi	Do. . .	B	Darjeeling . .	Wind velocity and rainfall.	38, 50, 52, 53, 55 and 56.	*For* "+ 1·6, 2·66, + 1·11, 4·68, + 1·18 and 1·23" *read* "— 1·6, 2·69, + 1·14, 4·71, + 1·21 and 1·26" respectively.
lxxi	Do. . .	B	Pachmarhi . .	Rainfall . . .	50, 52, 53 and 55.	*For* "2·26, + 1·93, 2·76 and + 0·84" *read* "2·23, + 1·90, 2·73 and + 0·81" respectively.
lxxii	Do. . .	B	Trincomalee . .	Pressure . .	7 and 11	*For* "30·064 and ·169" *read* "30·043 and ·148" respectively.
lxxii	Do. . .	B	Gyantse . . .	Do. . . .	4 and 7 to 11	*Reject* the figures already given.
lxxii	Do. . .	B	Ispahan . . .	Station . . .	2	*Read* "Ispahan (*b*) ‡" and *insert* footnote as "‡ 7 hrs. observations."
lxxx	April 1908 . .	A	Periyakulam . .	Temperature . .	10, 12 and 18	*For* "26·5, 22·6 and 85·2" *read* "26·6, 22·7 and 85·3" respectively.
lxxx	Do. . .	A	Port Blair . .	Elevation . .	3	*For* "61" *read* "58."
lxxxi	Do. . .	A	Udaipur . . .	Vapour tension .	27	*For* "·460" *read* "·458."
lxxxii	Do. . .	A	Pachmarhi . .	Temperature . .	10 and 12	*For* "93·2 and 23·4" *read* "93·3 and 23·5" respectively.
lxxxii	Do. . .	A	Kodaikanal . .	Pressure . .	7	*For* "22·822" *read* "22·826."
lxxxiii	Do. . .	A	Pachmarhi . .	Rainfall . . .	53 and 54	*For* "0·05 and 0·05" *read* "0·53 and 0·53" respectively.
lxxxvii	Do. . .	B	Tezpur . . .	Do. . . .	49	*Insert* "0."
lxxxvii	Do. . .	B	Dinajpur . .	Hygrometry . .	42	*For* "+3" *read* "—3."
xxxviii	Do. . .	B	Gaya . . .	Temperature . .	12	*For* "87" *read* "87·7."
c	Do. . .	B	Jhansi . . .	Elevation and pressure.	3, 5 and 6	*For* "825, —·018 and 29·747" *read* "824, —·030 and 29·735" respectively.
xc	Do. . .	B	Pachpadra . .	Pressure . .	4, 5, 6, 7 and 9.	*For* "29·404, —·018, 29·743, 29·679 and 29·318" *read* "29·374, —·048, 29·713, 29·649 and 29·288" respectively.
xciii	Do. . .	B	Bhavnagar Para .	Wind velocity .	36	*Insert* "6·2."
xciv	Do. . .	B	Nizamabad . .	Pressure . .	6	*For* "29·771 §" *read* "29·754 §."
xciv	Do. . .	B	Raichur . . .	Do. . . .	4, 5, 6, 7 and 9.	*For* "28·546, 0, 29·789, 28·614 and 28·476" *read* "28·541, —·005, 29·784, 28·609 and 28·471" respectively.

Corrigenda in the India Monthly Weather Reviews for the year 1908—*contd.*

TABLES A, B AND C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
xciv	April 1908	B	Periyakulam	Temperature	13, 17, 19, 20, 21 and 24.	*For* "94·9, 73·0, 21·0, 101·0, 29th and 30·3" *read* "96·3, 85·1, 22·4, 102·0, 30th and 31·3" respectively.
xciv	Do.	B	Nellore	Elevation	3	*For* "61" *read* "66."
xcv	Do.	B	Footnote	.....	...	*For* "*Mean of 2 days" *read* "*Mean of 29 days."
xcvi	Do.	B	Leh	Temperature	13, 14, 17, 18, 19, 20, 21 and 24.	*For* "58·5, +1·4, 45·3, +1·3, 26·5, 70·1, 5th and 46·6" *read* "58·0, +0·9, 45·0, +1·0, 26·0, 66·6, 8 days and 43·1" respectively.
xcvi	Do.	B	Kailang	Pressure	11	*For* "3·63" *read* "·363."
xcvi	Do.	B	Darjeeling	Do.	4, 5, 6, 7 and 9.	*For* "23·007, +·003, 22·962, 23·151, and 22·919" *read* "23·017, +·013, 22·972, 23·161 and 22·929" respectively.
xcvii	Do.	B	Port Blair	Wind direction	35	*For* "N2°W" *read* "N82°W."
xcvii	Do.	B	Sarain	Rainfall	50 and 53	*For* "4·75 and 9·10" *read* "4·76 and 9·11" respectively.
xcvii	Do.	B	Kodaikanal	Rainfall	50, 52, 53 and 55.	*For* "3·44, —1·85, 14·96 and —2·14" *read* "3·41, —1·88, 14·93 and —2·17, respectively.
xcviii	Do.	B	Ispahan (*b*)	Station	2	*Read* "Ispahan (*b*)‡" and *insert* footnote as "17 hours observations."
ciii	Do.	C	Poo	Rainfall	42	*For* "1·42" *read* "1·72."
cvi	May 1908	A	Hyderabad	Pressure	4	*For* "·019" *read* "·122."
cvi	Do.	A	Pudukkottai	Temperature	11, 12, 14, 15 and 18.	*For* "80·0, 21·7, 71·0, 35·0 and 90·9" *read* "79·8, 21·9, 70·8, 35·2 and 90·8" respectively.
cvi	Do.	A	Madras	Do.	19	*For* "+1·4" *read* "+1·3."
cvi	Do.	A	Port Blair	Elevation and pressure.	3 and 8	*For* "61 and +·004" *read* "58 and 0" respectively.
cvii	Do.	A	Hyderabad	Rainfall	53 and 54	*For* "0 and 0" *read* "0·15 and 0·15" respectively.
cvii	Do.	A	Pudukkottai	Vapour tension and humidity.	24, 27, 29 and 32.	*For* "·761, ·718, 75 and 61" *read* "·768, ·720, 76 and 55" respectively.
cviii	Do.	A	Muktesar	Elevation	3	*For* "7,556" *read* "7,592."
cviii	Do.	A	Pachmarhi	Temperature	11, 12, 14 and 15.	*For* "76·9, 19·6, 70·1 and 29·1" *read* "76·5, 20·0, 67·6 and 31·6" respectively.
cix	Do.	A	Chakrata	Rainfall	53	*For* "1·72" *read* "1·76."
cix	Do.	A	Pachmarhi	Vapour tension and humidity.	24, 27, 28 and 29.	*For* "285, 297, — ·066 and 31" *read* "290, 299, — ·064 and 32" respectively.
cxii	Do.	B	Kyaukpyu	Pressure	4	*For* "29·791‡" *read* "29·797‡."
cxii	Do.	B	Thayetmyo	Temperature	17	*For* "8" *read* "89·0."
cxiii	Do.	B	Myitkyina	Wind direction	33	*Reject* the figure already given.
cxv	Do.	B	Calcutta	Wind velocity	38	*Insert* "+ 0·9"
cxv	Do.	B	Monghyr	Wind direction and velocity.	25, 28, 34 and 36.	*For* "1, 19, S 93° E and 9·8" *read* "blank, 20, S 83° E and 9·8" respectively.
cxv	Do.	B	Benares	Wind velocity	38	*Insert* "— 1·1."
cxvi	Do.	B	Jhansi	Elevation and pressure.	3, 5 and 6	*For* 835, + ·009 and 29·650" *read* "824, — ·003 and 29·638" respectively.
cxvi	Do.	B	Ambala	Temperature	18	*For* "— 3·2" *read* "— 3·3."
cxvi	Do.	B	Pachpadra	Pressure	4, 5, 6, 7 and 9.	*For* "29·344, + ·018, 29·678, 29·430 and 29·248" *read* "29·314, — ·012, 29·648, 29·400 and 29·218" respectively.

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TABLES A, B AND C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
cxviii	May 1908	B	Nizamabad	Pressure	6	*For* " 29·746 ¶ " *read* " 29·739¶."
cxix	Do.	B	Veraval	Wind velocity	36	*For* "18·7" *read* "18·7."
cxix	Do.	B	Column No.	Do.	36	*In* column number *for* "36" *read* "36."
cxix	Do.	B	Malegaon	Hygrometry	41	*For* "66" *read* "36·"
cxix	Do.	B	Bijapur	Rainfall	50	*For* "0·13" *read* "0·18."
cxx	Do.	B	Raichur	Pressure	4, 5, 6, 7 and 9.	*For* "28·530, + ·027, 29·780, 28·399 and 28·462" *read* "28·525, + ·022, 29·775, 28·394 and 28·457" respectively.
cxx	Do.	B	Hyderabad	Temperature	13	*For* "105" *read* "105·0."
cxx	Do.	B	Pudukkottai	Do.	15, 17, 19, 23, 23 and 24.	*For* "70·1, 90·4, 22·6, 70·1, 23rd and 35·2" *read* "70·7, 90·7, 22·0, 70·3, 24th and 35·2" respectively.
cxx	Do.	B	Nellore	Elevation	3	*For* "61" *read* "66."
cxx	Do.	B	Waltair (Vizag)	Temperature	24	*For* "36·5" *read* "26·5."
cxxii	Do.	B	Parachinar	Pressure	4 and 6	*For* "24·331 and 24·298" *read* "24·336‖ and 24·303‖" respectively.
cxxii	Do.	B	Muktesar	Temperature	22 and 24	*For* "43·9 and 39·6" *read* "44·0 and 39·5" respectively.
cxxii	Do.	B	Darjeeling	Pressure	4, 5, 6, 7 and 9.	*For* "23·993, + ·012, 22·948, 23·101, and 22·917" *read* "23·003, + ·022, 22·958, 23·111 and 22·927" respectively.
cxxii	Do.	B	Pachmarhi	Temperature	15 to 19	*For* "76·1, + 1·0, 36·2, + 1·1, and 20·1" *read* "76·5, + 1·4, 36·4, + 1·3 and 19·7" respectively.
cxxiv	Do.	B	Gyantse	Do.	15	*For* "3·4" *read* "33·4."
cxxiv	Do.	B	Pharijong	Pressure	4, 7, 8 and 11	*For* "17·906, 18·031, 18th and ·228" *read* "17·887*h*, 18·025, 21st and ·222" respectively.
cxxiv	Do.	B	Gangtok	Do.	4	*For* "24·379" *read* "24·381*g*."
cxxiv	Do.	B	Kabul	Do.	4, 6, 9, 10 and 11.	*For* "24·231, 24·200, 24·134, 10th and ·241" *read* "24·225¶, 24·194¶, 24·154, 28th and ·221" respectively.
cxxiv	Do.	B	Footnote	.....	...	*Insert* footnote as "*h* mean of 11 days" and "*g* mean of 21 days."
cxxv	Do.	B	Amini Divi	Rainfall	52	*For* "1·21" *read* "—1·21."
cxxv	Do.	B	Meshed	Do.	47	*For* "0" *read* "6."
cxxv	Do.	B	Perim	Wind direction	30	*For* "11" *read* "14."
cxxxii	June 1908	A	Port Blair	Elevation and pressure.	3 and 8	*For* "61 and + ·012" *read* " 58 and + ·003" respectively.
cxxxiv	Do.	A	Muktesar	Elevation	3	*For* "7,556" *read* "7,592."
cxxxvii	Do.	B	Central Provinces	Rainfall	19, 20 and 21	*For* "7·56, 6·87 and + 0·69" *read* "7·47, 6·81 and + 0·66" respectively.
cxxxix	Do.	B	Malda	Do.	51	*For* "9·09" *read* "9·89."
cxl	Do.	B	Krishnagar	Pressure	6	*For* "29·530" *read* "29·536."
cxl	Do.	B	Raniganj	Temperature	13 and 17	*For* "95· and 67·0" *read* "95·1 and 87·0" respectively.

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TABLES A, B AND C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
cxl	June 1908	B	Monghyr	Temperature	15, 17, 19, 22, 23 and 24.	*For* "79·0, 88·7, 19·3, 65·4, 8th and 42·5" *read* "79·3, 88·8, 19·0, 72·9, 6th and 35·0" respectively.
cxli	Do.	B	Krishnagar	Rainfall	49	*For* "2·61" *read* "+ 2·61."
cxlii	Do.	B	Jhansi	Elevation and pressure.	3, 5 and 6	*For* "835, — ·017 and 29·503" *read* "824, — ·029 and 29·491" respectively.
cxlii	Do.	B	Ambala	Temperature	19	*For* "22·5" *read* "22·4."
cxlii	Do.	B	Pachpadra	Pressure	4, 5, 6, 7 and 9.	*For* "29·233, + ·042, 29·564, 29·329 and 29·064" *read* "29·203, + ·0109, 29·534, 29·299 and 29·034" respectively.
cxlvi	Do.	B	Nizamabad	Do.	6	*For* "29·678" *read* "29·659."
cxlvi	Do.	B	Raichur	Do.	4, 5, 6, 7 and 9.	*For* "28·466, + ·029, 29·772, 28·535 and 28·336" *read* "28·461, + ·024, 29·717, 28·530 and 28·331" respectively.
cxlvi	Do.	B	Bangalore	Temperature	15 to 19, 22 and 24.	*For* "67·1, + 0·3, 77·1, + 1·4, 20·0, 64·8 and 27·5" *read* "66·7, — 0·1, 76·9, + 1·2, 20·4, 64·2 and 28·1" respectively.
cxlvi	Do.	B	Nellore	Elevation	3	*For* "61" *read* "66."
cxlvii	Do.	B	Hanumkonda	Rainfall	56	*For* "·44" *read* "1·44."
cxlvii	Do.	B	Negapatam	Do.	56	*For* "237" *read* "2·57."
cxlviii	Do.	B	Car Nicobar	Pressure	7	*For* "29·916" *read* "29·946."
cxlviii	Do.	B	Darjeeling	Do.	4, 5, 6, 7 and 9.	*For* "22·920, — ·005, 23·675, 23·027, and 22·797" *read* "22·930, + ·005, 22·885, 23·037 and 22·807" respectively.
cxlix	Do.	B	Shillong	Rainfall	52	*For* "— 3·61" *read* "— 3·09."
cl	Do.	B	Minicoy	Pressure	7	*For* "29·98" *read* "29·983."
cl	Do.	B	Gyantse	Do.	4 and 7 to 11	*Reject* the figures already given.
cli	Do.	B	Penang	Wind direction	29	*Insert* "3."
cli	Do.	B	Kashgar	Hygrometry	42	*Insert* "— 5."
clviii	July 1908	A	Port Blair	Pressure	8	*For* "+ ·028" *read* "+ ·024."
clix	Do.	A	Udaipur	Rainfall	53	*For* "12·37" *read* "14·34."
clx	Do.	A	Muktesar	Elevation	3	*For* "7,556" *read* "7,592."
clx	Do.	A	Dodabetta	Temperature wet-bulb.	20 and 23	*For* "46·8 and 49·4" *read* "46·6 and 49·3" respectively.
clxi	Do.	A	Do.	Vapour tension	27	*For* "·348" *read* "·345."
clxiii	Do.	B	Central Provinces	Rainfall	19, 20 and 21	*For* "13·75, 12·94 and + 1·81" *read* "14·01, 12·75 and + 1·26" respectively.
clxiv	Do.	B	Cox's Bazar	Pressure	4	*For* "29·8555" *read* "29·857."
clxv	Do.	B	Do.	Winds	30, 34, 36 and 39.	*For* "5, S 37° E, 9·4, and 66" *read* "6, S 35° E, 9·5 and 69" respectively.
clxv	Do.	B	Do.	Cloud and rainfall	45, 47, 50 and 53.	*For* "6·9, 33, 41·73 and 75·72" *read* "7·0, 24, 46·37 and 80·36" respectively.
clxvii	Do.	B	Dehri	Rainfall		*For* "44" *read* "7·44."
clxviii	Do.	B	Jhansi	Elevation and pressure.	3, 5 and 6	*For* "835, + ·006 and 29·538" *read* "824, — ·006 and 29·525" respectively.

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TABLES A, B AND C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
clxviii	July 1908 . .	B	Peshawar . .	No. of sub-division	1	*For* "1" *read* "15."
clxviii	Do. . .	B	Kurrachee . .	Temperature . .	14, 16 and 18	*For* "— 1·8, — 0·8 and — 1·3" *read* "+ 0·5, + 0·2 and + 0·4" respectively.
clxviii	Do. . .	B	Pachpadra . .	Pressure . .	4, 5, 6, 7 and 9.	*For* "29·172, + ·012, 29·506, 29·506, 29·243 and 29·114" *read* "29·142, — ·018, 29·476, 29·213 and 29·084" respectively.
clxix	Do. . .	B	Kurrachee . .	Hygrometry . .	42	*For* "+ 6" *read* "+ 4."
clxxii	Do. . .	B	Nizamabad . .	Pressure . .	6	*For* "29·673 ††" *read* "29·656 ††."
clxxii	Do. . .	B	Raichur . . .	Do. . . .	4, 5, 6, 7 and 9.	*For* "28·467, + ·013, 29·734, 28·577 and 28·396" *read* "28·462, + ·008, 29·729, 28·572 and 28·391" respectively.
clxxii	Do. . .	B	Pudukkottai . .	Temperature . .	15, 17, 19 and 22.	*For* "77·3†, 86·7†, 18·6 and 70·1†" *read* "77·5, 86·7, 18·4 and 70·1" respectively.
clxxii	Do. . .	B	Nellore . . .	Elevation . .	3	*For* "61" *read* "66."
clxxiv	Do. . . .	B	Leh . . .	Temperature .	13, 14, 17 to 21 and 24.	*For* "76·7, — 1·5, 64·5, + 0·1, 24·5, 85·6, 22nd and 42·1" *read* "76·5, —1·7, 64·4, —0·1, 24·3, 81·6, 18th and 38·1" respectively.
clxxiv	Do. . . .	B	Darjeeling . .	Pressure . .	4, 5, 6, 7 and 9.	*For* "22·929, + ·010, 22·834, 22·998 and 22·851" *read* "22·932, + ·020, 22·894, 23·008 and 22·861" respectively.
clxxiv	Do. . . .	B	Ootacamund . .	Temperature .	15, 17, 19, 22, 23 and 24.	*For* 52·0, 56·7, 9·8, 43·7, 15th and 22·8" *read* "52·3, 56·8, 9·0, 49·7, 3 days and 16·8" respectively.
clxxiv	Do. . . .	B	Kodaikanal . .	Do. . . .	13, 17, 19, 20, 21 and 24.	*For* "62·1, 57·2, 9·9, 66·5, 5th and 16·5" *read* "61·9, 57·1, 9·7, 65·5, 3rd and 15·5" respectively.
clxxv	Do. . . .	B	P. V. Fraser .	Wind velocity .	36	*Insert* "12·0".
clxxv	Do. . . .	B	Kodaikanal . .	Rainfall . .	50, 52, 53, 55 and 56.	*For* "5·01, + 1·12, 12·42, — 1·95 and 1·15" *read* "4·89, + 1·00, 12·30, — 2·07 and 1·10 respectively.
clxxvi	Do. . .	B	Gyantse . .	Pressure . .	4 and 7 to 11	*Reject* the figures already given.
clxxvii	Do. . . .	B	Gyantse . .	Raiufall . .	47, 50 and 53	*For* "3, 1·57 and 3·31" *read* "4, 1·92 and 3·66" respectively.
clxxx	Do. . . .	C	Killa Drosh . .	Temperature .	12	*For* "6th to 13th" *read* "6th and 13th".
clxxxiv	August 1908 . .	A	Udaipur . .	Pressure . .	5, 6, 7 and 9	*For* "27·654, ·083, 27·694 and 29·554" *read* "27·657, ·080, 27·695 and 29·555" respectively.
clxxxiv	Do. . . .	A	Port Blair . .	Do. . . .	8	*For* "+ ·002" *read* "— ·002".
clxxxv	Do. . . .	A	Mysore . .	Rainfall . .	53	*For* "2·18" *read* "2·20".
clxxxv	Do. . . .	A	Quetta . .	Humidity . .	33	*For* "—" *read* "— 2".
clxxxvi	Do. . . .	A	Muktesar . .	Elevation . .	3	*For* "7,556" *read* "7,592".
clxxxvi	Do. . . .	A	Ootacamund .	Temperature .	10, 13, 13, 15 and 16.	*For* "61·6, 10·7, 66·3, 19·9 and 55·8" *read* "62·1, 11·2, 66·6, 20·4 and 56·0" respectively.
clxxxix	Do. . . .	B	Central Provinces	Rainfall . .	19, 20 and 21	*For* "14·81, 10·26 and + 4·55" *read* "14·72, 10·19 and + 4·53" respectively.
cxci	Do. . . .	B	Cox's Bazar .	Rainfall . .	53	*For* "91·39" *read* "96·03".
cxcii	Do. . . .	B	Chapra . .	Temperature .	20, 22 and 24	*For* "96·7, 74·9, and 21·8" *read* "97·2, 73·9 and 23·3" respectively.
cxciv	Do. . . .	B	Jhansi . .	Elevation and Pressure.	3, 5 and 6	*For* "835, — ·010 and 29·582" *read* "824, — ·022, and 29·570" respectively.

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TABLES A, B AND C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
cxciv	August 1908 . .	B	Kurrachee . .	Temperature . .	14, 16 and 18	*For* " — 2·4, — 1·1 and — 1·8 " *read* " + 1·8, + 0·6 and + 1·0 " respectively.
cxciv	Do. . . .	B	Pachpadra . .	Pressure . .	4, 5, 6, 7 and 9	*For* "29·224, — ·019, 29·560, 29·338 and 29·114" *read* "29·194, — ·049, 29·530, 29·318 and 29·094" respectively.
cxcv	Do. . .	B	Kurrachee . .	Hygrometry . .	42	*For* " + 5 " *read* " + 1."
cxcvi	Do. . . .	B	Sangor . .	Pressure . .	4, 7 and 9	*For* "28·828, 28·916 and 28·720" *read* " 27·828, 27·916 and 27·720" respectively.
cxcvi	Do. . .	B	Nizamabad . .	Do. . .	6	*For* "29·697* ?" *read* "29·680* ?."
cxcviii	Do. . . .	B	Periyakulam .	Temperature .	13, 17, 19, 20, 21 and 24.	*For* "86·8, 80·1, 17·4, 94·3, 27th and 26·7" *read* "95·1, 83·3, 23·7, 93·2, 28th and 30·6" respectively.
cxcviii	Do. . . .	B	Trichinopoly .	Temperature .	24	*For* "28·8" *read* " 28·3".
cxcviii	Do. . . .	B	Nellore . .	Elevation . .	3	*For* "61" *read* " 66".
cc	Do. . . .	B	Quetta . .	Temperature .	15, 16, 18, 19, 22, 23 and 24.	*For* "55·6, + 4·5, + 3·7, 27·8, 55·8, 27th and 4·18" *read* "65·4, + 4·3 + 3·6, 28·0, 52·8, 28th and 44·3" respectively.
cc	Do. . . .	B	Darjeeling . .	Pressure . .	4, 5, 6, 7 and 9	*For* "22·970, + ·019, 22·925, 23·049 and 22·909" *read* "22 980, + ·029, 22·935, 23·059 and 22·919", respectively.
cci	Do. . . .	B	Chitral . .	Wind velocity .	36	*For* "15·0" *read* " 7·4".
ccii	Do. . . .	B	Gyantse . .	Pressure . .	4 and 7 to 11	*Reject* the figures already given.
ccii	Do. . . .	B	Baghdad . .	Pressure . .	5	*For* " — ·009" *read* " — ·069 ".
ccii	Do. . . .	B	Beirut . .	Pressure . .	6	*For* " 29 734" *read* "29·774".
cciii	Do. . . .	B	Singapore . .	Wind direction .	28	*For* "3" *read* "2".
cciii	Do. . . .	B	Zanzibar . .	Rainfall . .	52	*For* " — 0·70" *read* " — 0·62 ".
ccvii	Do. . . .	C	Fraserganj . .	Hygrometry . .	32	*For* " 89 (a)" *read* "87 (a)".
ccvii	Do. . . .	C	Chumbi . .	Rainfall . .	44	*Insert* "8·79 (*h*) and footnote as (*h*) Total rainfall since 1st July 1908".
ccx	September 1908 .	A	Port Blair . .	Elevation and Pressure.	3 and 8	*For* "61 and — ·008" *read* "58 and — ·012" respectively.
ccxi	Do. . . .	A	Port Blair . .	Rainfall . .	53	*For* "16·07" *read* "16·87".
ccxii	Do . . .	A	Leh . . .	Pressure . .	4, 6, 7, 8 and 9	*For* "19·745, ·104, 19·695, + ·012, and 19·663" *read* "19·748, ·107, 19·697, + ·014 and 19·665" respectively.
ccxii	Do. . . .	A	Quetta . .	Temperature and wet bulb.	11, 12, 18, 19, 22 and 23.	*For* "49·1 (c), 35·5, 66·8 (c), — 0·3, 55·8 and 50·7" *read* " 49·9 (a), 35·7, 66·6 (a) — 0·5, 55·5 and 50·6" respectively and *insert* foot note as (c) mean of 25 days.
ccxii	Do. . . .	A	Muktesar . .	Elevation . .	3	*For* "7,556" *read* " 7,592."
ccxii	Do. . . .	A	Pachmarhi . .	Pressure and Temperature.	4, 5, 7, 8, 9 and 16.	*For* "26·378, 26·297, 26·339, 0, 25·283, and 73·4" *read* " 26·387, 26·306, 26·347, + ·009, 26·294 and 73·1 " respectively.
ccxii	Do. . . .	A	Ootacamund . .	Temperature .	10, 12, 13, 15 and 18.	*For* "64·7, 13·6, 88·0, 22·2 and 57·5" read "65·2, 14·1, 68·5, 22·7 and 57·8" respectively.
ccxii	Do. . . .	A	Mauritius . .	Temperature .	18 and 19	*Insert* " 70·1 and + 0·5 " respectively.

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TABLES A, B AND C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
cclxiii	September 1908	A	Quetta	Vapour tension and Humidity.	24, 26, 27, 28, 29 and 31.	*For* "·236 (*c*), ·126, ·196, — ·056, 67 (*c*) and 17" *read* "·232 (*a*), ·165, ·191 — ·061, 66 (*a*) and 18" respectively.
cclxiii	Do.	A	Pachmarhi	Vapour tension and Rainfall.	25, 27, 28, 30, 32, 33 and 53.	*For* "·635, ·628, — ·011, 78, 83, — 3 and 6·20" *read* "·639, ·629, — ·010, 80, 84, — 2 and 0·27" respectively.
cclxiii	Do.	A	Dodabetta	Vapour tension	27	*For* "·362" *read* "·354".
cclxv	Do.	B	.....	(1) Provincial means, etc.	...	*For* "2,500" *read* "2,700 stations" in line 6.
cclxvii	Do.	B	Cox's Bazar	Rainfall	53	*For* "106·72" *read* "111·36".
cclxx	Do.	B	Jhansi	Elevation and Pressure.	3, 5 and 6	*For* "·815, + ·044 and 29·753" *read* "·824, + ·022, and 29·741" respectively.
cclxxi	Do.	B	Montgomery	Rainfall	56	*For* "1·78" *read* "1·76".
cclxxii	Do.	B	Kurrachee	Temperature	14, 16 and 18	*For* "— 3·1, — 1·3 and — 2·2" *read* "+ 0·3, + 0·1 and + 0·2" respectively.
cclxxii	Do.	B	Pachpadra	Pressure	4, 5, 6, 7 and 9	*For* "29·418, + ·041, 29·757, 29·537 and 29·279" *read* "29·383, + ·011, 29·727, 29·507, and 29·249" respectively.
cclxxii	Do.	B	Ahmedabad	Temperature	22	*For* "3·2" *read* "73·2".
cclxxiv	Do.	B	Nizamabad	Pressure	6	*For* "29·765" *read* "29·750."
cclxxv	Do.	B	Amraoti	Rainfall	47, 49, 50, 52, 53, 55 and 56.	*For* "7, — 0·30, 4·35, — 1·91, 23·74, — 1·29 and 0·85" *read* "15, + 7·70 11 81$_x$ + 5·95, 35·70, + 5·67 and 2·21" respectively.
cclxxv	Do.	B	Hassan	Wind direction	26	*Omit* "1".
cclxxvi	Do.	B	Periyakulam	Temperature	13, 17, 19, 20, 21 and 24.	*For* "86·5, 79·1, 14·9, 93·2, 5th and 26·2" *read* "92·8, 82·2, 21·2, 96·3, 1st and 2nd and 30·3" respectively.
cclxxvi	Do.	B	Nellore	Elevation	3	*For* "52" *read* "66".
cclxxvi	Do.	B	Port Blair	Elevation	3	*For* "61" *read* "58".
cclxxvii	Do.	B	Periyakulam	Wind steadiness and rainfall.	39 and 52	*For* "60 and + 0·41" *read* "6 and + 0·44" respectively.
cclxxvii	Do.	B	Port Blair	Rainfall	50, 52, 53 and 55.	*For* "16·93, — 2·49, 111·87 and + 27·97" *read* "16·87, — 2·55, 112·81 and + 27·91" respectively.
cclxxviii	Do.	B	Srinagar	Temperature	12	*For* "58·3" *read* "58·9".
cclxxviii	Do.	B	Quetta	Temperature	15 to 19	*For* "49·1*h*, — 1·0*h*, 67·2*h*, — 0·6, and 36·2" *read* "48·8*k*, — 2·0*k*, 67·1*k*, — 1·1 and 36·5" respectively.
cclxxviii	Do.	B	Darjeeling	Pressure	4, 5, 6, 7 and 9	*For* "23·027, —·002, 22·982, 23·085, and 22·939 *read* "23·037, + ·008, 22·992, 23·095 and 22·949" respectively.
cclxxviii	Do.	B	Footnote	.....	...	*Insert* footnote as "K Mean of 28 days".
cclxxviii	Do.	B	Para Chinar	Temperature	17	*For* "47·3" *read* "67·3."
cclxxviii	Do.	B	Ootacamund	Pressure	4	*For* "23·990" *read* "22·990."
cclxxx	Do.	B	Minicoy	Do.	7	*For* "30·097" *read* "30·007."
cclxxx	Do.	B	Gyantse	Do.	4 and 7 to 11	*Insert* "18·583, *h* 18·626, 1st, 18·538, 6th and ·088" respectively.
cclxxx	Do.	B	Gangtok	Do.	4, 7, 8 and 11	*For* "24·397, 24·497, 24th and ·178" *read* "24·390, (*c*), 24·457, 23rd and ·138" respectively.

Corrigenda in the India Monthly Weather Reviews for the year 1908—*contd.*

TABLES A, B AND C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
ccxxx	September 1908	B	Kabul	Pressure	4 and 6	*For* " 24·211 and 24·180 " *read* " 24·214 *(e)* and 24 183 *(e)* " respectively.
ccxxx	Do.	B	Meshed	Temperature	13	*For* " 85·0 " *read* " 85·3."
ccxxx	Do.	B	Zanzibar	Do.	24	*For* " 13·6 " *read* " 13·1."
ccxxx	Do.	B	Foot note	.....	...	*Insert* footnote as " *h.* mean of 7 days."
ccxxxi	Do.	B	Page No.	.....	...	*For* " ccxxx " *read* " ccxxxi " as page No.
ccxxxi	Do.	B	Minicoy	Rainfall	52	*For* " +1·24 " *read* " +11·24."
ccxxxviii	October 1908	A	Port Blair	Pressure	8	*For* " —·006 " read " —·010."
cexl	Do.	A	Quetta	Temperature	11, 12, 14, 15, 18 and 19.	*Reject* the figures already given.
cexl	Do.	A	Quetta	Temperature wet bulb.	20 and 23	*Insert* " 34·0 and 43·3 " respectively.
cexl	Do	A	Muktesar	Elevation	3	*For* " 7,556 " *read* " 7,592."
cexl	Do.	A	Ootacamund	Temperature	10, 12, 13, 15 and 18.	*For* " 62·9, 2·7, 66·3, 20·6 and 56·6 " *read* " 63·4, 13·2, 66·8, 21·1 and 56·8 " respectively.
cexli	Do.	A	Quetta	Cloud	37	*For* " —6 " *read* " —0·6."
cexliii	Do.	B	Provincial means	etc.	...	*For* " 2,500 " *read* " 3,700 stations " in line 6.
cexliii	Do.	B	Central Provinces	Rainfall	19 and 21	*For* " 0·25 and —1·51 " *read* " 0·28 and —1·43 " respectively.
cexlv	Do.	B	Cox's Bazar	Do.	53	*For* " 116·65 " read " 121·22."
cexlvii	Do.	B	Sirajganj	Wind steadiness	39	*Insert* " 6."
ccl	Do.	B	Jhansi	Elevation and pressure.	3, 5 and 6	*For* " 835, +·007 and 29·893 " *read* " 824, —·005 and 29·881 " respectively.
ccl	Do.	B	Kurrachee	Temperature	14, 16 and 18	*For* " — 6·2 ?, + 1·3 and — 2·5 ? " *read* " — 1·5, + 0·9 and — 0·3 " respectively.
ccli	Do.	B	Do.	Hygrometry	42	*For* " — 24 ? " *read* " — 20."
cclii	Do.	B	Pachpadra	Pressure	4, 5, 6, 7 and 9	*For* " 29 4·9 ? —·013, ? 29·835, ? 29·578 and 29·303 ? " *read* " 29 4·9, —·078, 29·805, 29·548 and 29·273 " respectively.
cclv	Do.	B	Neemuch	Do.	4	*For* " 29·308 " *read* " 28·308."
cclv	Do.	B	Nizamabad	Do.	5 and 6	*For* " + ·010 and 29·893 " *read* " + ·015 and 29·881 " respectively.
cclv	Do.	B	Raichur	Do.	4 to 7 and 9	*For* " 28·586, —·005, 29·851, 28·649 and 28·491 " *read* " 28·581, —·010, 29·846, 28·644 and 28·486 " respectively.
cclv	Do.	B	Amraoti	Rainfall	53 and 55	*For* " 28·74 and — 3·62 " *read* " 35·70 and + 3·34 " respectively.
cclvi	Do.	B	Mysore	Temperature	15, 16, 19, 22, 23 and 44.	*For* " 67 2, + 0·2, 18·9, 65·0, 2nd, 3rd. 31st and 26·0 " *read* " 67·1, and + 0·1, 19·0, 65·8, 1st and 27·5 " respectively.
cclvi	Do.	B	Salem	Do.	22	*For* " 70·" *read* " 70·4."
cclvi	Do.	B	Kurnool	Do.	20	*For* " 9·" *read* " 95·2."
cclvi	Do.	B	Nellore	Elevation	3	*For* " 52 " *read* " 66."
cclvii	Do.	B	Vellore	Cloud	45	*For* " 5·0 " *read* " 4·2."
cclviii	Do.	B	Port Blair	Elevation	3	*For* " 61 " *read* " 58."

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TABLES A, B AND C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
cclviii	October 1908	B	Quetta	Temperature	15 to 19 and 22 to 24.	*Reject* the figures already given.
cclviii	Do.	B	Para Chinar	Pressure	4 and 6	*For* "24·439 and 24·406" *read* "24·446 (*e*) and 24·413 (*e*)" respectively.
cclviii	Do.	B	Cherat	Do.	4 to 11	*Reject* the figures given.
cclviii	Do.	B	Footnote	.....	...	*Insert* footnote as "(*e*) mean of 29 days."
cclix	Do.	B	Car Nicobar	Wind velocity	36	*For* "3·3" *read* "2·6 (*e*)."
cclix	Do.	B	Port Blair	Rainfall	53 and 55	*For* "119·59 and + 22·93" *read* "119·53 and + 22·87" respectively.
cclix	Do.	B	Cherat	Do.	50	*For* "0·3" *read* "0·35."
cclx	Do.	B	Kailang	Pressure	4 and 6	*For* "21·012 and 20·967" *read* "21·015 and 20·970" respectively.
cclx	Do.	B	Darjeeling	Do.	4, 5, 6, 7 and 9	*For* "23·068, —·033, 23·13, 23·151 and 22·949." *read* "23·068, —·023, 23·023, 23·161 and 22·959." respectively.
cclx	Do.	B	Pachmarhi	Temperature	19	*For* "20·9" *read* "21·0."
cclx	Do.	B	Singapore	Do.	13, 17 and 19	*For* "87·7, 81·0 and 18·5" *read* "87·4, 80·8 and 13·2" respectively.
cclx	Do.	B	Gangtok	Pressure	4 and 7 to 11	*For* "24·442, 24·510, 31st, 24·333, 1st and ·177" *read* "24·448, 24·532, 23rd, 24·337, 9th and ·195" respectively.
cclxiii	Do.	B	Bushire	Station	57	*For* "*Bushir*" *read* "*Bushire*."
cclxvii	Do.	C	Chumbi	Rainfall	44	*Insert* "12·38 *h*" and footnote as "*h* total rainfall since 1st July 1908."
cclxx	November 1908	A	Port Blair	Pressure	8	*For* "+·001" *read* "—·003."
cclxx	Do.	A	Leh	Do.	5 to 9	*For* "19·671, ·098, 19·718, —·023 and 19·686" *read* "19·668, ·101, 19·717, —·021 and 19·685." respectively.
cclxxii	Do.	A	Mauritius	Do.	8	*For* "—0·27" *read* "—0·027."
cclxxiii	Do.	A	Seychelles	Cloud	37	*For* "—·5‖" *read* "—0·5‖."
cclxxiii	Do.	A	Mauritius	Do.	36 and 37	*For* "57 and + 2" *read* "5·7 and + 0·2" respectively.
cclxxvi	Do.	B	Minbu	Temperature	16	*For* "—0·0" *read* "0."
cclxxvi	Do.	B	Faridpur	Do.	17	*For* "2·2" *read* "72·2."
cclxxvi	Do.	B	Rangpur	Do.	24	*For* "0·1" *read* "30·1."
cclxxvii	Do.	B	Cox's Bazar	Rainfall	53	*For* "126·92" *read* "131·56."
cclxxviii	Do.	B	Jalpaiguri	Temperature	12	*For* "65·" *read* "65·0."
cclxxviii	Do.	B	Motihari	Elevation, etc.	3	*For* "2·24" *read* "221."
cclxxviii	Do.	B	Motihari	Pressure	4 and 6	*For* "29·908 and 30·004" *read* "29,806, 30·007" respectively.
cclxxix	Do.	B	Bankura	Wind steadiness	39	*Insert* "17."
cclxxx	Do.	B	Jhansi	Elevation and pressure.	3, 5 and 6	*For* "835, + ·011 ‖ and 30·038 ‖" *read* "834, —·001 and 30·026" respectively.
cclxxx	Do.	B	Kurrachee	Temperature	14, 16 and 18	*For* "— 4·6, + 3·3 and — 0·6" *read* "—0·7, — 0·7 and — 0·7" respectively.
cclxxx	Do.	B	Pachpadra	Pressure	4, 5, 6, 7 and 9.	*For* "29·576 ‖, —·067 ‖, 29·226 ‖ 29·730 and 29·417" *read* "29·548, —·097, 29·896, 29·700, and 29·387" respectively.

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TABLES A, B AND C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
cclxxx	November 1908	B	Jaipur	Station	2	*For* " Jaip " *read* " Jaipur."
cclxxxi	Do.	B	Kurrachee	Hygrometry	42	*For* " + 12 " *read* " + 17."
cclxxxi	Do.	B	Jaipur	Wind direction	27	*For* " 1 " *read* " 4."
cclxxxii	Do.	B	Sangor	Temperature	18	*For* " —1·4 " *read* " + 1·4."
cclxxxiii	Do.	B	Page	No.	...	*For* " cclxxxii " *read* " cclxxxiii."
cclxxxiii	Do.	B	Bhuj	Hygrometry	41	*For* " 5 " *read* " 55."
cclxxxiii	Do.	B	Ahmedabad	Rainfall	52	*For* " —0·40 " *read* " —0·38."
cclxxxiii	Do.	B	Amraoti	Do	53 and 55	*For* "28·74 and — 4·21" *read* " 35·70 and + 2·75 " respectively.
cclxxxiv	Do.	B	Nizamabad	Pressure	5 and 6	*For* " + ·020 and 29·991 " *read* " + ·025 and 29·979 " respectively.
cclxxxiv	Do.	B	Raichur	Pressure	4, 5, 6, 7 and 9.	*For* " 28·668, —·014, 29·952, 28·756, and 28·471 " *read* " 28·663, —·019, 29·947, 28·751 and 28·466 " respectively.
cclxxxvi	Do.	B	Port Blair	Elevation	3	*For* " 61 " *read* " 58."
cclxxxvi	Do.	B	Quetta	Temperature.	15 to 19 and 22 to 24.	*Reject* the figures already given.
cclxxxvi	Do.	B	Cherat	Do.	22 and 24	*For* " 40·5 and 31·1 " *read* " 43·5 and 28·1 " respectively.
cclxxxvi	Do.	B	Darjeeling	Pressure	4, 5, 6, 7 and 9	*For* " 23·074, — ·028, 28·029, 23·144 and 22·958 " *read* " 23·084, — ·018, 28·039, 23·154 and 22·968 " respectively.
cclxxxvi	Do.	B	Cherra Poonjee	Temperature.	22 and 24	*For* " 45·5 and 25·7 " *read* " 45·3 and 25·9 " respectively.
cclxxxvii	Do.	B	P. V. Fraser	Rainfall	56	*For* " 0·18 " *read* " 0·15."
cclxxxvii	Do.	B	Port Blair	Do.	53 and 55	*For* " 127·78 and +21·92 " *read* " 127·72 and +21·86 " respectively.
cclxxxvii	Do.	B	Dras	Do.	51 and 52	*Insert* " 1·14 and —1·12 " respectively.
cclxxxvii	Do.	B	Skardu	Do.	51 and 52	*Insert* " 0·03 and —0·03 " respectively.
cclxxxvii	Do.	B	Murree	Wind velocity	36 and 38	*Insert* " 5·9 and +0·2 " respectively.
cclxxxvii	Do.	B	Maymyo	Rainfall	52	*For* " —10·45 " *read* " +10·45."
cclxxxviii	Do.	B	Gyantse	Pressure	4 and 7 to 11	*Reject* the figures already given.
cclxxxviii	Do.	B	Gartok	Do.	4 and 7 to 11	*Reject* the figures already given.
cclxxxviii	Do.	B	Gartok	Do.	4, 7 and 9	*For* " 17·317 *(f)*" 17·411 and 17·166" *read* " 17·643 *(f)*, 17·735 and 17·490 " respectively.
cclxxxviii	Do.	B	Kabul	Do.	4 and 6	*For* " 24·368§ and 24·3375 " *read* " $24·371_{-1}$, and $24·340_{-1}$." respectively.
cclxxxviii	Do.	B	Baghdad	Temperature	16	*For* " + $_{1}$ " *read* " $+1·9_{1}$."
cclxxxviii	Do.	B	Footnote	.....	...	*For* "*(f)* Mean of 7 days " *read* "*(f)* Mean of 17 days."
cclxxxix	Do.	B	Minicoy	Rainfall	56	*For* " 1·54 " *read* " 1·78."
cclxxxix	Do.	B	Bahrein	Wind direction	28, 29 and 31	*For* " 2·5 and 1 " *read* " blank, 2 and 2 " respectively.
cclxxxix	Do.	B	Baghdad	Do.	35	*For* " N. W." *read* " N-5° W."

Corrigenda in the India Monthly Weather Reviews for the year 1908—*concld.*

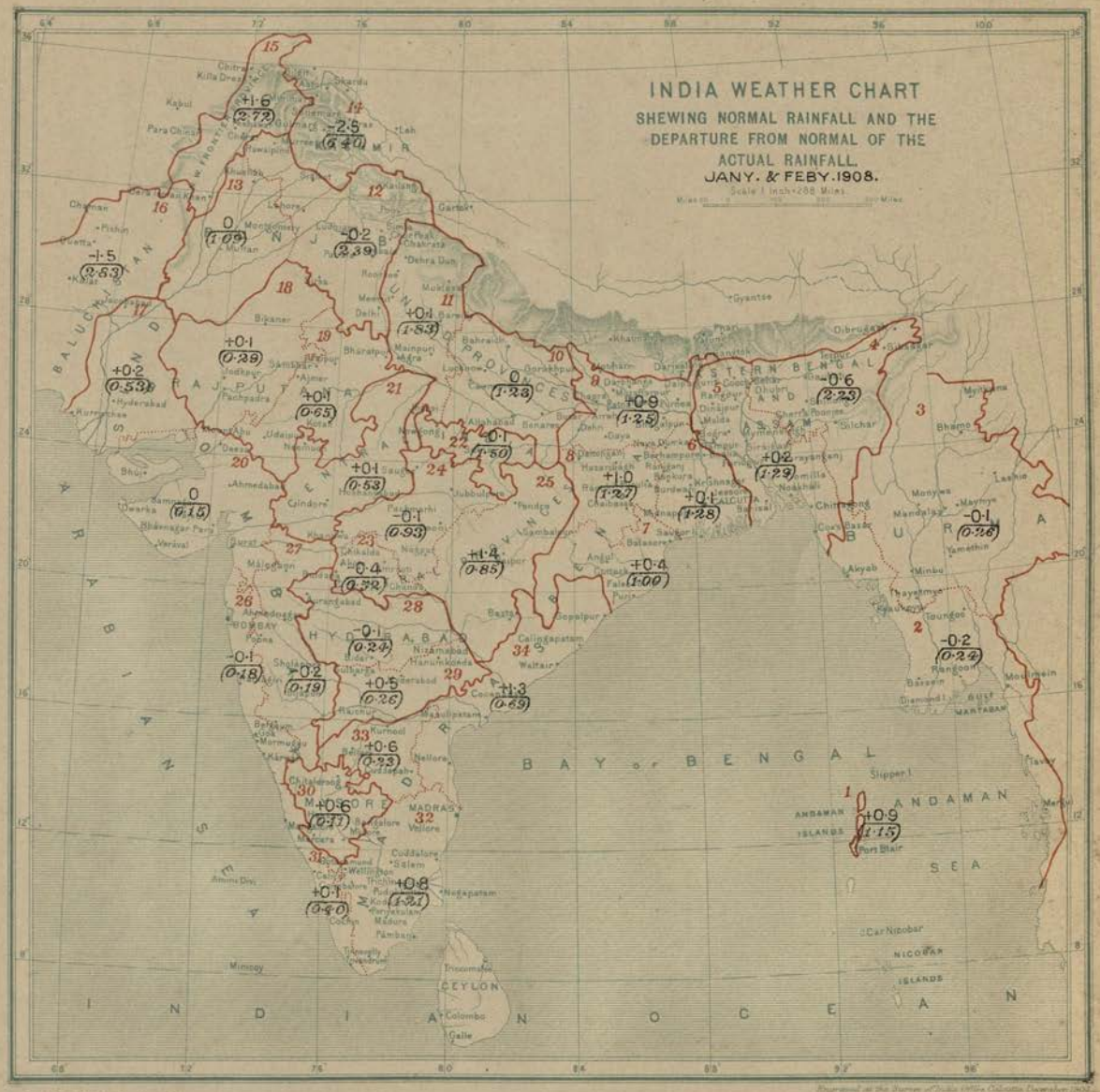
TABLES A, B AND C—*concld.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
ccxcii	November 1908	C	Srimangal	Temperature	11	*For* "9·5" *read* "89·5."
ccxcii	Do.	C	Koweit	Do.	4	*For* "1" *read* "78·1."
ccxcii	Do.	C	Maidan	Do.	4	*For* "7" *read* "78·8."
ccxciii	Do.	C	Chumbi	Rainfall	44	*Insert* "12·38 h."
ccxciii	Do.	C	Kermanshah	Do.	44	*Insert* "4·09."
ccxciii	Do.	C	Footnote	.....	...	*Insert* footnote as "h total rainfall since 1st July 1908."
cccii	December 1908	B	Dibrugarh	Pressure	4 and 6 to 11	*For* "29·746, 30·086, 29·830, 18th, 29·677, 26th and ·158" *read* "29·767 (*a*), 30·106 (*a*), 29·824, 9th 29·745, 6th and ·079" respectively.
cccii	Do.	B	Footnote	.....	...	*Insert* "(*a*) Mean of 10 days."
cccili	Do.	B	Dibrugarh	Wind velocity	36	*For* "1·0" *read* "1·0 (*a*)."
ccciv	Do.	B	Motihari	Elevation and pressure.	3 and 6	*For* "2·24 and 30·099" *read* "221" and "30·096" respectively.
cccvi	Do.	B	Jhansi	Elevation and pressure.	3, 5 and 6	*For* "835, + ·037 ? and 30·143 ?" *read* "824, + ·025, + 30·131" respectively.
cccvi	Do.	B	Kurrachee	Temperature	14, 16 and 18	*For* "— 1·5, + 3·6 and + 1·1" *read* "+ 0·1, — 0·7 and — 0·3" respectively.
cccvi	Do.	B	Pachpadra	Pressure	4, 5, 6, 7 and 9	*For* "29·676 ? —·022 ?, 30·045 ? 29·789 and 29·543" *read* "29·646, —·052, 30·015, 29·759 and 29·513" respectively.
cccvii	Do.	B	Kurrachee	Hygrometry	42	*For* "+ 3" *read* "+ 1."
ccclx	Do.	B	Amraoti	Rainfall	50, 52, 53, 55 and 56.	*For* "0·90, + 0·33, 0·90, + 0·33 and 0·90" *read* "2·34, + 1·77, 2·34, + 1·77 and 2·34" respectively.
cccx	Do.	B	Nizamabad	Pressure	5 and 6	*For* "+ ·084 ? and 30·061" *read* "+ ·089 ? and 30·069" respectively.
cccx	Do.	B	Raichur	Do.	4, 5, 6, 7 and 9	*For* "28·726,* —·001,* 30·027,* 28·708 and 28·653" *read* "28·721,* —·006,* 30·022,* 28·703 and 28·648" respectively.
cccxii	Do.	B	Darjeeling	Do.	4, 5, 6, 7 and 9	*For* "23·084, + ·009, 23·039, 23·146, 22·986." *read* "23·094, + ·019, 23·049, 23·156 and 22·996" respectively.
cccxiii	Do.	B	Page	No.	...	*For* "cccxii" *read* "cccxiii."
cccxiv	Do.	B	Gartok	Pressure	4, 7 and 9	*For* "17·179, 17·411 and 17·061" *read* "17·503, 17·735 and 17·385," respectively.
cccxv	Do.	B	Tehran	Station	57	*For* "To rain" *read* "Tehran."

G. C. E. P., Simla.—No. 131 M.B. G. I.—12-10-09.—405.

The country is divided into 34 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Eastern Bengal
6. Bengal
7. Orissa
8. Chota Nagpur
9. Bihar
10. United Provinces, East
11. Do., West
12. Punjab, East and North
13. Do., Southwest
14. Kashmir
15. Northwest Frontier Province
16. Baluchistan
17. Sind
18. Rajputana, West
19. Rajputana, East
20. Gujarat
21. Central India, West
22. Do., East
23. Berar
24. Central Provinces, West
25. Do., East
26. Konkan
27. Bombay, Deccan
28. Hyderabad, North
29. Do., South
30. Mysore
31. Malabar
32. Madras, Southeast
33. Madras, Deccan
34. Madras Coast, North



Reg. No. 4095 E. 09 – L – 1,800.

Engraved at the Survey of India Office Calcutta December 1908.

LITHO. BY N. L. HALBEK.

The country is divided into 34 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall; the numbers above these give the departures from normal of the average actual rainfall over the divisions.

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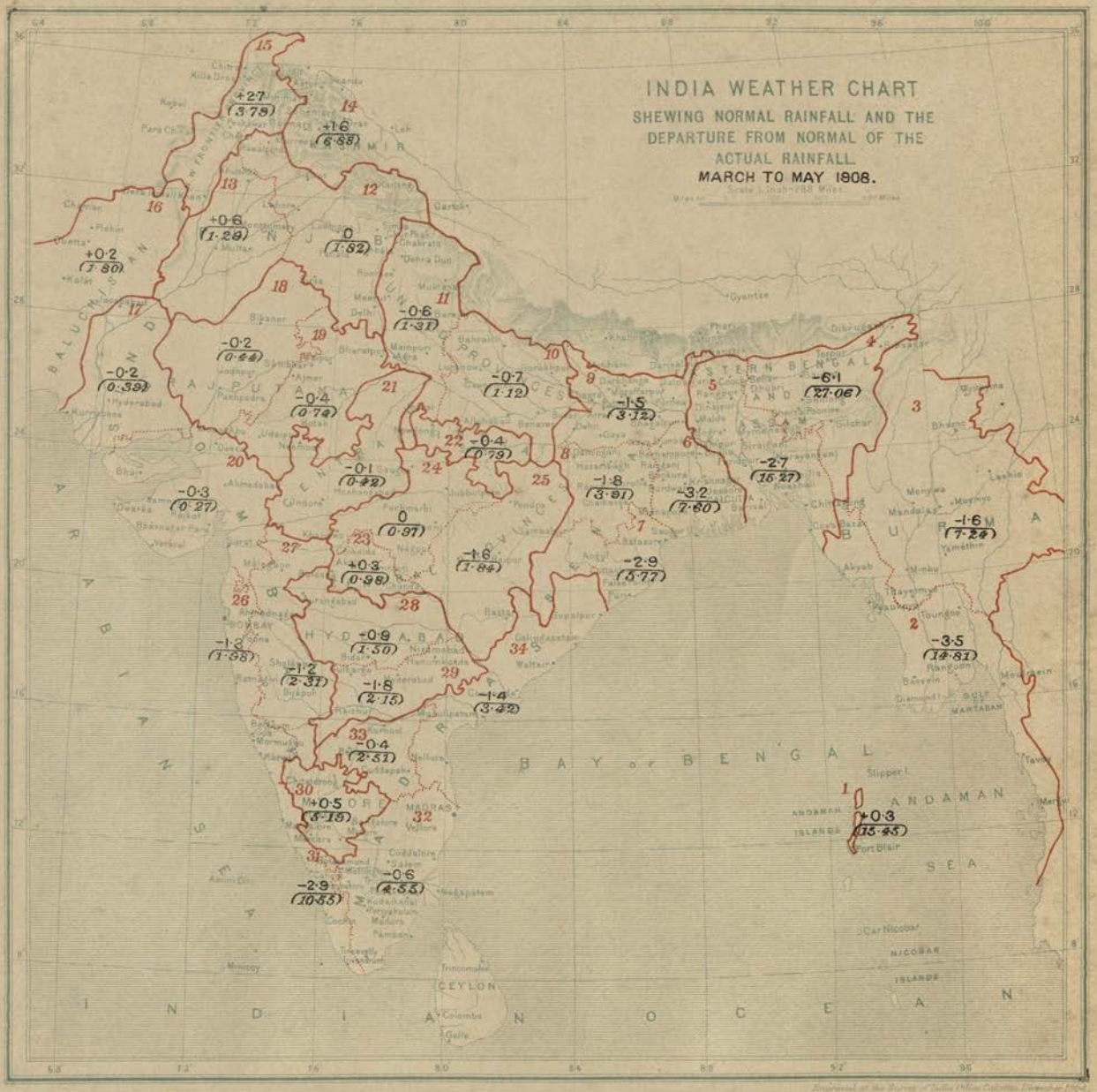

Reg. No. 1026 E. 08-21.—1,800

Engraved at the Survey of India Office, Calcutta, December 1908.

LITHO. BY R. S. MUNDLE.

The country is divided into 34 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall; the numbers above these give the departures from normal of the average actual rainfall over the divisions.

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19. Rajputana, East
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31. Malabar
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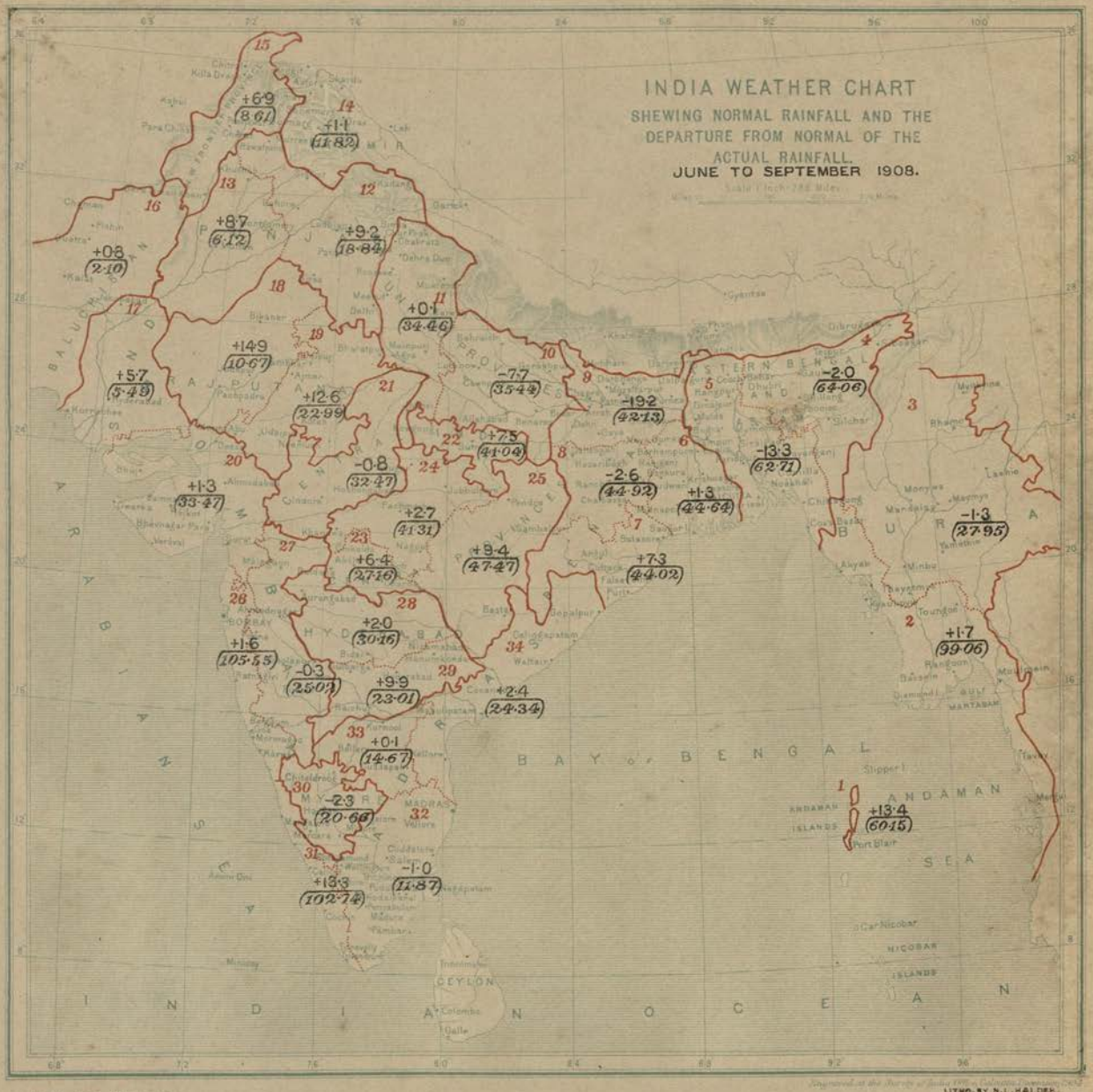

LITHO. BY N. L. HALDER.

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17. Sind
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19. Rajputana, East
20. Gujarat
21. Central India, West
22. Do., East
23. Berar
24. Central Provinces, West
25. Do., East
26. Konkan
27. Bombay, Deccan
28. Hyderabad, North
29. Do., South
30. Mysore
31. Malabar
32. Madras, Southeast
33. Madras, Deccan
34. Madras Coast, North

Reg. No. 4000 E. 09 — 1,000

Engraved at the Survey of India Offices, Calcutta, December 1908.

LITHO. BY J. N. MUNDLE.

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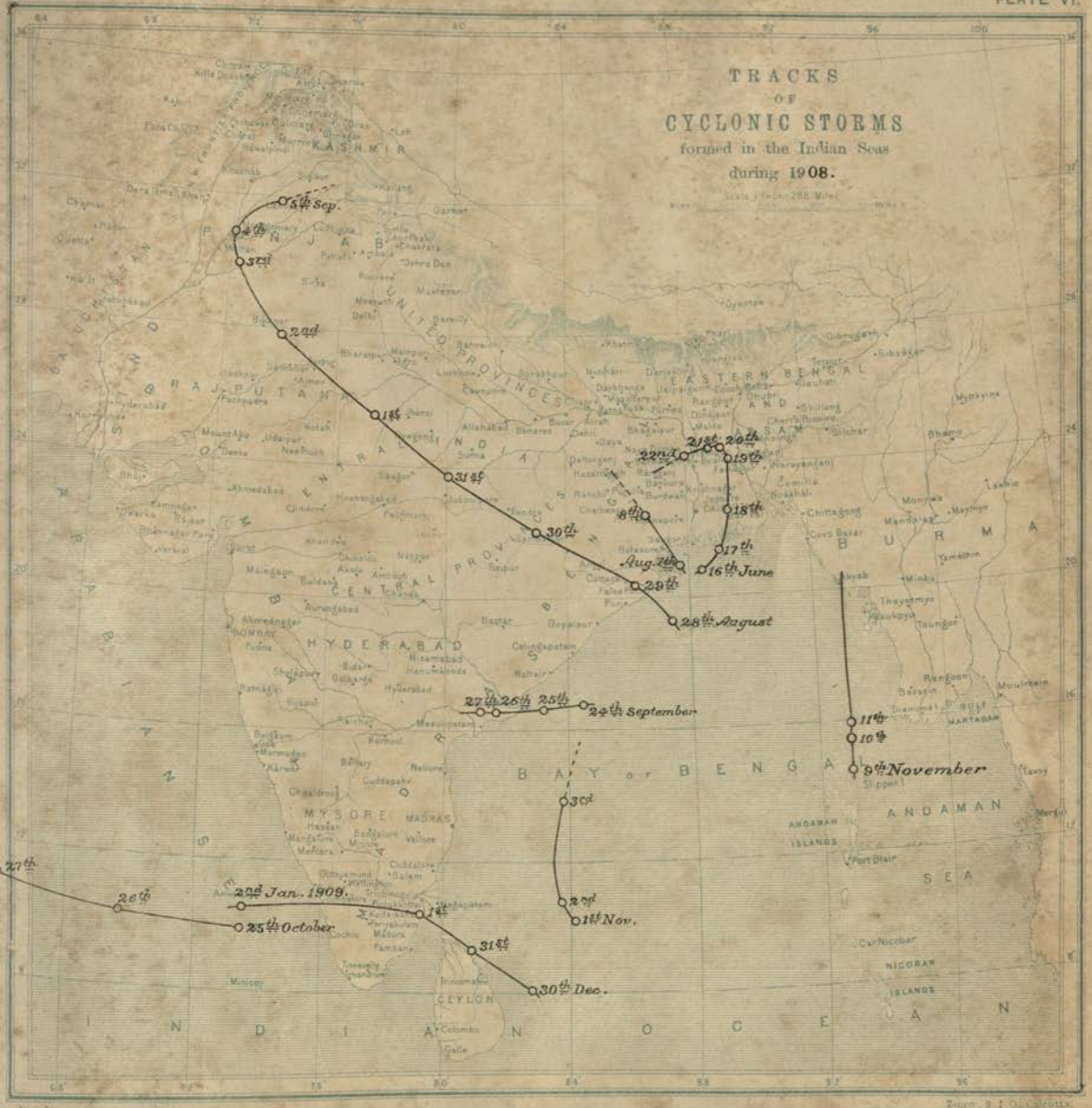

The further track of the storm of October in the Arabian Sea is defined by the following positions which lie outside the boundaries of the map:-

	Lat. N.	Long. E.
28th October	14°-50′	60°-20′
29th "	17°-40′	59°-40′

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

THE INDIA WEATHER REVIEW

FOR THE YEAR

1912

Published by Authority of the Government of India

UNDER THE DIRECTION OF

GILBERT T. WALKER, C.S.I., M.A., Sc.D., F.R.S.
Director General of Observatories.

CALCUTTA
SUPERINTENDENT GOVERNMENT PRINTING, INDIA
1914

ANNUAL SUMMARY, 1912.

INTRODUCTION.

THE present account of the meteorology of 1912 is based on revised data and is intended primarily for scientific reference; for those needing prompt information the Annual Supplement to the India Daily Weather Report was issued on January 8, 1913.

Several systems of territorial division of India have come into use from time to time for meteorological purposes, each having been adopted to meet the needs of some particular set of data. A certain amount of confusion had been found to result from the consequent want of uniformity of boundaries, and, with a view of obviating the inconvenience caused, the Government of India in 1907 authorised the adoption of the following system of division :—

Chief political divisions.	Sub-divisions.
Burma	Bay Islands.
	Lower Burma.
	Upper Burma.
Eastern Bengal and Assam	Assam.
	Eastern Bengal.
Bengal	Bengal.
	Orissa.
	Chota Nagpur.
	Bihar.
United Provinces	United Provinces, East.
	United Provinces, West.
Punjab	Punjab, East and North.
	Punjab, South-west.
North-West Frontier Province	North-West Frontier Province.
	Baluchistan.
Sind	Sind.
Rajputana	Rajputana, West.
	Rajputana, East.
Bombay	Gujarat.
	Konkan.
	Bombay Deccan.
Central India	Central India, West.
	Central India, East.
Central Provinces	Berar.
	Central Provinces, West.
	Central Provinces, East.
Hyderabad	Hyderabad, North.
	Hyderabad, South.
Mysore	Mysore.
Madras	Malabar.
	Madras, South-east.
	Madras, Deccan.
	Madras Coast, North.

From the 1st April 1912 a fresh territorial division of Eastern Bengal and Assam and Bengal was sanctioned by which Eastern Bengal was restored to Bengal while Orissa, Chota Nagpur and Bihar were constituted into a separate province under the name of Bihar and Orissa. The present arrangement is shown below :—

Chief political divisions.	Sub-divisions.
Assam	Assam.
Bengal	Bengal.
Bihar and Orissa	Orissa.
	Chota Nagpur.
	Bihar.

In the present review the new division has been adopted throughout.

The system of division is illustrated in Plate I at the end of this Annual Summary, and its relationship to the old system of divisions which was adopted for the tables of the 'Geographical Summary' given in former issues can be obtained by reference to pages 9 to 14 of Volume III of the Indian Meteorological Memoirs.

The data of Table B in the monthly reviews and in the present annual part are obtained, with a few exceptions, from the observations telegraphed daily to Simla for publication in the Daily Weather Report. In the case of thermometric observations, they are telegraphed to the nearest half degree. Hence the maximum and minimum temperature data of the second class observatories derived from these telegraphic

reports and given in table B, occasionally differ to some slight extent from the means of the more exact data (recorded to the tenth of a degree) tabulated in the observation forms sent to the Calcutta Office, and used in the calculation of the mean temperature data in Table A. There is also another reason why the data of mean maxima and minima in Tables A and B differ to a slight extent. In Table B the daily or 24-hour period is assumed to end at 8 hrs. and in Table A at midnight [except for rainfall the period of which ends at 8 hrs.], and hence the maximum temperature in Table B for any month of 31 days at any station gives the mean for 31 periods of 24 hours ending at 8 hrs. of the 31st and in Table A for the same number of 24-hour period ending at midnight on the 31st, and virtually, therefore, of a monthly period one day in advance of the former. Similarly for months of 28, 29 or 30 days. These remarks will explain some of the slight discrepancies which may be found between the mean data of maximum and minimum temperature in Tables A and B, and in the monthly mean departure data given in these tables in the monthly reviews and annual summary.

Solar, Magnetic and Seismic Activity.

Report from Kodaikanal Observatory.

The following table shows for each month the solar observations that were made :—

SOLAR OBSERVATIONS.

TABLE 1.

	1912.												
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
A	30	29	17	...	16	18	24	26	27	25	23	26	261
B	...	...	2	1	...	...	...	...	...	...	...	...	3
C	30	29	29	28	31	18	15	22	25	13	16	24	280
D	30	29	31	30	31	27	22	29	28	26	22	24	329
E	30	29	31	30	31	26	24	28	29	26	22	25	331

A—spots observed; B—spot spectra; C—prominences; D—photoheliograms; E—spectroheliograms.

The sun's disc was examined visually for spots etc., on 261 days only whilst in 1911 it was examined on 333 days. The reduction in the number of observations was mainly due to an interruption of 66 days whilst the Lerebour and Secretan telescope was being adapted for both visual and photographic work. The observing conditions were perhaps not so good as in 1911, and there were as many as 25 days when there was no sunshine recorded.

Summary of Sunspot and Prominence Observations.

Sun-spots.—The following table shows the monthly numbers of new groups observed, the mean daily numbers of spots visible, and the distribution between the northern and southern hemispheres :—

TABLE 2.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
New groups	...	...	1	2	2	1	3	2	5	1	1	4	22
Daily number	...	...	0·4	0·3	0·4	0·5	0·3	0·1	0·7	0·3	...	0·4	0·3
North	...	...	...	...	...	...	...	...	...	...	...	2	2
South	...	...	1	2	2	1	3	2	5	1	1	1	19
Equator	...	...	...	...	...	...	...	...	...	...	...	1	1

The decline in spot activity noted in the last few years continued in 1912, but the rate of decrease between 1911 and 1912 has lessened very slightly.

It seems probable that the minimum of spot activity occurred during the early part of 1912, not a single spot having been recorded in January and February, whilst there was a slight recovery of activity in September and in December. The appearance of a spot in latitude + 27° in December may probably be considered as the beginning of a new cycle of activity.

Of the twenty-two groups recorded during the year, nineteen were in the southern hemisphere and were, on the whole, closer to the equator than in 1911. Their mean latitude was—7°·2 against—9°·8 in 1911. Of the three remaining spots, one was a small dot on the equator, one was at + 20° and the third, the last group of the year was at + 27°; all three spots were observed in the latter part of December.

Prominences.—The mean areas of prominences for each hemisphere of the sun are shown in the following table in which the figures for the previous two years are given for comparison :—

Mean daily profile areas of Prominences in square minutes of arc.

TABLE 3.

	1910.	1911.	1912.
North	2·03	1·27	0·95
South	2·07	1·64	1·51
Total	4·10	91	2·46

The reduction of prominence area is here shown to be very much less than the reduction of spot numbers or of new groups, also the rate of decrease has lessened considerably between 1911 and 1912.

The area curve underwent a marked change in the second-half of 1911. There were several sharp, though small, maxima and a pronounced maximum near 50° south. These features were maintained in a general way in 1912.

Metallic Prominences.

TABLE 4.

	Number observed.	Mean latitude.	Extreme latitudes.
North	3	14°·5	1°·5 35°
South	9	18°·0	8° 46°·5

The prominence activity in each month may be estimated from the following table :—

Number of Prominences.

TABLE 5.

Months.	Prominences—one minute or more in height.	Metallic.	Eruptive.
January	84	1	4
February	63	1	3
March	63	3	4
April	39	1	6
May	32	...	1
June	24	2	....
July	16	1	5
August	42	...	2
September	34	1	1
October	31	...	...
November	33	2	3
December	58	...	3

The metallic and eruptive prominences show a decrease corresponding to that of the spot activity. But there is actually an increase in the number of "large" prominences; this is particularly striking in January and February when there was no spot recorded, but the numbers of large prominences are the highest in the year.

J. EVERSHED,
Director,
Kodaikanal and Madras Observatories.

Bombay Observatory : Note on the (Alibag) magnetic record.

During the year there were 150 calm days, 207 days of small and 9 days of moderate disturbance, as against 95 calm days, 253 days of small, 15 days of moderate and 2 days of great disturbance of the preceding year.

The following table prepared in accordance with the suggestions made by the International Commission, Terrestrial Magnetism, represents the magnetic character of each day during the year :—

TABLE 6.

1912. Date.	MONTH. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	1	0	1	1	0	1	1	1	1	1	1	1
2	0	0	0	0	1	1	0	1	0	0	1	1
3	1	1	0	0	1	1	1	0	0	1	0	1
4	0	0	0	1	1	0	1	0	1	1	1	0
5	1	0	1	1	2	0	1	1	1	0	1	0
6	0	0	1	1	1	0	1	2	1	1	1	1
7	0	0	1	1	1	0	1	1	0	1	1	1
8	1	0	1	0	1	1	1	0	1	1	1	1
9	1	0	1	0	0	1	0	0	1	0	1	1
10	0	1	1	1	1	1	0	0	1	1	2	0
11	1	1	1	0	1	1	0	1	1	1	1	1
12	1	1	1	0	1	1	0	0	1	1	0	0
13	1	1	0	0	1	0	0	0	1	1	0	1
14	1	0	1	1	1	1	1	1	1	2	2	1
15	0	0	1	2	1	0	0	1	0	1	1	1
16	0	1	0	1	0	0	1	1	0	1	1	0
17	1	1	0	1	0	1	1	1	2	1	1	0
18	1	1	0	1	0	0	1	1	1	0	1	1
19	1	0	0	1	0	0	1	2	1	0	1	1
20	1	0	0	0	0	0	1	1	0	1	0	0
21	0	0	0	0	0	0	0	1	0	1	0	0
22	1	0	1	0	0	1	0	1	1	1	1	1
23	1	1	0	1	0	1	0	1	1	1	1	1
24	1	1	0	0	1	1	0	1	2	1	0	1
25	0	1	0	1	1	0	1	1	1	1	0	1
26	0	1	0	0	0	0	1	0	0	0	1	1
27	0	1	0	0	0	1	1	1	1	0	1	0
28	1	0	1	0	0	1	0	1	0	1	0	0
29	0	0	1	0	1	1	0	1	0	1	0	1
30	1		0	1	0	1	0	0	1	1	0	1
31	0		0		1		1	0		0		1
Σ	18	13	14	16	18	17	17	23	22	24	22	21

In the above table 0 represents Calm day.
" 1 " small disturbance.
" 2 " larger disturbance.

The following is a list of days during the year 1912 selected as "quiet" from the Alibag records for the purposes of the Magnetic Survey, as suitable for the determination of the magnetic diurnal inequalities :—

TABLE 7.

MONTHS.	Selected quiet days.				
1912.					
January . . .	4	7	16	21	27
February . . .	1	9	14	20	28
March	2	13	18	20	25
April	2	9	12	21	29
May	1	9	17	23	28
June	4	7	16	20	26
July	2	12	13	24	28
August	3	4	13	26	30
September . . .	3	7	15	16	29
October	5	9	18	19	26
November . . .	3	12	13	21	25
December . . .	5	12	16	21	28

The mean values of the magnetic elements obtained from all days in year are as follows :—

Mean easterly declination		0° 51′ 11″
„ Horizontal Force		0·36874 C. G. S.
„ Vertical Force (standardised by Inductor).		0·16367 „
Mean inclination by the Inductor	Observed .	23° 54′·8
	Calculated .	23° 56′·1

The inclination shown as 'calculated' is derived from the corrected mean values of H. and V. for the year.

The Vertical Force upto the end of the year 1911 was derived from the results of the Dip circle. From the beginning of the year 1912, however, it has been derived from the Inclination results of the Inductor. To maintain the continuity between the past record and the present, a correction of about 25 γ (equivalent to 2′ of Dip) is indicated, the Inductor result giving higher values of V.

The following table gives the corrected monthly mean values of the several magnetic elements as also the summed ranges of the Horizontal Force :—

TABLE 8.

MONTHS.	ABSOLUTE VALUES OF				HORIZONTAL FORCE.	
	Horizontal Force.	Vertical Force.	Inclination.	Easterly Declination.	Summed ranges.	Summed ranges (smoothed)
1912.	C. G. S.	C. G. S.	° ′	′ ″	C. G. S.	C. G. S.
January .	0·36873	0·16314	23 52·0	0 52 52	0·00146	0·00204
February .	0·36874	0·16328	23 53·0	0 52 32	0·00172	0·00205
March .	0·36878	0·16341	23 53·9	0 52 8	0·00244	0·00204
April .	0·36870	0·16345	23 54·5	0 52 8	0·00255	0·00205
May .	0·36873	0·16357	23 55·4	0 51 42	0·00284	0·00208
June .	0·36877	0·16356	23 55·1	0 51 9	0·00239	0·00211
July .	0·36879	0·16371	23 56·2	0 51 1	0·00277	0·00215
August .	0·36869	0·16376	23 57·0	0 50 44	0·00171	0·00219
September .	0·36869	0·16388	23 57·9	0 50 27	0·00171	0·00222
October .	0·36875	0·16400	23 58·6	0 50 10	0·00233	0·00223
November .	0·36878	0·16410	23 59·5	0 49 47	0·00250	0·00223
December .	0·36877	0·16415	23 59·7	0 49 31	0·00169	0·00224

NOTE.—Summed range means sum without regard to sign of the 24 ordinates of the diurnal inequality. Smoothed ranges are derived from running means of twelve consecutive monthly values reduced to the proper epoch so as to eliminate the annual variation.

In the secular march of the range curve as roughly indicating the activity of the 11-year period, it appears from the progress of the figures in the last column that the lowest figure 202 showing a record minimum of magnetic activity in the Colaba Data of 65 years, was reached in November-December 1911. Since then the curve has risen steadily. Unless therefore a marked fall ensues by the interference of some other smaller period, which is not unlikely, the turning point of the 11-year magnetic activity may be regarded as having been definitely passed about the end of 1911 or the beginning of 1912. Comparing the actual figures of the corresponding months for the years 1911, 1912, 1913, the decay of magnetic energy appears however to continue to run into May 1912, the corresponding monthly figures thereafter only, indicating growth by steadily increasing numbers.

TABLE 9.—*In the following table will be found a list of Seismic disturbances recorded by the Milne's Seismograph at Bombay.*

(All times given in this table denote G. M. T.)

No.	Date 1912.	Commencement.		Max.		End.		Max. Amp.	Duration.		Remarks.
		h.	m.	h.	m.	h.	m.	mm.	h.	m.	
4	January 4	16	10·9	16	40·7	17	13·2	0·9	1	2·3	
18	„ 26	14	50·7	14	59·2	15	8·8	0·4	0	18·1	
24	„ 31	.....		21	15·5	.....		0·5	.....		Beginning and end mixed up in tremors.
82	March 24	12	29·0	12	35·5	12	47·8	0·3	0	18·8	
89	April 1	5	19·1	5	23·1	5	30·3	0·4	0	11·2	
116	„ 23	21	52·4	21	59·6	22	10·7	0·5	0	18·3	
119	„ 25	10	34·7	10	35·9	10	42·4	0·2	0	7·7	
141	May 6	19	21·1	19	44·5	20	52·5	1·9	1	31·4	
147	„ 11	17	36·7	17	40·5	18	13·9	1·1	0	37·2	
149	„ 15	.....		0	34·3	.....		0·3	.....		Beginning and end mixed up in tremors.
157	„ 21	8	38·1	8	44·6	9	26·9	1·0	0	48·8	
161	„ 23	2	28·9	.....		4	42·7	.....	2	13·8	Traces overlap.
183	June 7	10	42·9	10	49·2	.....		1·1	.....		End mixed up with the beginning of the following disturbance.
184	„ 7	.....		11	30·5	11	55·3	0·5	.....		Beginning mixed up with the end of the preceding disturbance.
185	„ 7	12	59·7	13	8·1	13	30·0	0·4	0	30·3	
187	„ 7	18	56·9	19	12·5	19	51·4	1·0	0	54·5	
194	„ 8	7	40·3	8	29·1	.....		1·8	.....		End mixed up with the beginning of the following disturbance.
195	„ 8	.....		9	45·0	.....		1·3	.....		Beginning mixed up with the end of the preceding disturbance; end mixed up with the beginning of the following disturbance.
196	„ 8	.....		11	26·9	12	21·0	0·5	.....		Beginning mixed up with the end of the preceding disturbance.
197	„ 8	13	45·7	13	52·6	14	29·4	1·3	0	43·7	
201	„ 10	16	39·4	16	59·8	17	44·3	2·5	1	4·9	
206	„ 12	7	53·8	7	58·8	8	14·9	0·5	0	21·1	
217	„ 17	11	58·0	12	1·9	12	17·4	0·7	0	19·4	
220	„ 18	12	16·4	12	50·2	13	49·5	1·0	1	33·1	
227	„ 26	17	2·8	17	9·5	17	26·0	0·6	0	23·2	
241	July 7	8	21·3	8	56·2	11	11·0	5·8	2	49·7	
255	„ 24	12	9·0	12	18·7	.....		0·7	.....		End mixed up with the beginning of the following disturbance.
256	„ 24	.....		13	27·0	13	49·9	0·5	.....		Beginning mixed up with the end of the preceding disturbance.
258	„ 25 and 26	23	19·5	23	59·2	0	40·9	0·5	1	21·4	
274	August 6	13	33·1	13	41·9	14	20·1	1·5	0	47·0	
279	„ 9	1	37·3	.....		5	1·8	.....	3	24·5	Traces overlap.

TABLE 9.—*In the following table will be found a list of Seismic disturbances recorded by the Milne's Seismograph at Bombay*—concld.

(All times given in this table denote G. M. T.)

No.	Date 1912.	Commencement.		Max.		End.		Max. Amp.	Duration.		Remarks.
		h.	m.	h.	m.	h.	m.	mm.	h.	m.	
296	August 17	19	21·1	19	34·6	21	24·5	4·4	2	3·4	
302	„ 21	17	48·8	18	4·8	18	19·4	0·4	0	30·6	
306	„ 23	14	6·6	14	12·2	14	45·6	1·3	0	39·0	
307	„ 28	21	48·4	21	48·8	22	31·6	1·1	0	43·2	
316	„ 31	23	5·4	23	10·9	23	36·2	0·7	0	30·8	
325	September 11	0	58·8	1	5·5	1	47·1	2·5	0	43·3	Beginning doubtful as it is mixed up in tremors; end mixed up in tremors.
331	„ 13	23	45·4	23	58·7	.....		1·0	.....		
342	„ 26	19	42·5	19	44·4	19	51·2	0·5	0	8·7	
346	„ 29	21	2·9	21	34·6	22	47·8	1·5	1	44·9	
347	„ 29 and 30 . . .	23	21·7	23	41·0	0	2·4	0·5	0	40·7	
359	October 12	16	3·1	16	12·7	16	44·6	0·5	0	41·5	
372	„ 18	12	25·8	12	41·8	13	15·0	2·3	0	49·2	
387	„ 31	17	43·5	18	7·6	18	32·0	0·2	0	48·5	
399	November 7	8	5·0	8	41·6	9	25·1	2·6	1	20·1	
426	„ 28	21	2·3	.....		.....		.....	.....		Very small disturbance; phases ill-defined.
447	December 9	.....		0	28·9	.....		1·0	.....		Beginning and end mixed up in tremors.
448	„ 9	8	54·0	10	10·9	10	58·7	0·5	2	4·7	
468	„ 24	0	7·5	0	31·6	.....		0·3	.....		End mixed up in tremors.
470	„ 24	18	26·5	18	35·7	18	51·6	0·3	0	25·1	
476	„ 28	8	6·9	8	34·6	9	9·4	0·8	1	2·5	

Sensibility to tilt 1·0 mm. of amplitude equals 0·40″ between 1st January and 23rd July, 0·37″ between 24th July and 3rd December and 0·35″ between 4th and 31st December 1912.

N. A. F. MOOS,

Director, Bombay and Alibag Observatories.

Solar Radiation.

The following table shows, in absolute measure, the value of solar radiation as measured at Simla by means of Angstrom's electric compensation pyrheliometer :—

TABLE 10.

1912.	Intensity in gramme-calories per sq. cm. per min.			Number of days of observation.
	Maximum.	Minimum.	Mean.	
January		No obser	vations.	
February . . .	1·55	1·44	1·49	12
March	1·49	1·28	1·43	8
April	1·47	1·40	1·44	5
May	1·47	1·24	1·37	7
June	1·24	1·18	1·22	4
July		No obser	vations.	
August		No obser	vations.	
September . . .	1·35	1·24	1·31	7
October	1·37	1·23	1·30	16
November . . .	1·36	1·24	1·32	14
December . . .	1·43	1·28	1·38	4

Nocturnal Radiation.

Observations of the terrestrial radiation thermometers, which are as a rule not very reliable, were recorded during the year 1912 at the following stations—

Srinagar.	Jodhpur.	Calcutta (Alipore).
Lahore.	Allahabad.	Bombay.
Simla.	Ootacamund.	

The following Table 11 gives the average data of past years for the above stations; and Table 12 the departure from the normal.

TABLE 11.—*Average depression of mean monthly and annual nocturnal radiation temperatures below mean monthly and annual minimum shade temperatures.*

Station.	Number of years observations used.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar . . .	14—19	8·3	8·7	9·8	10·2	11·1	11·1	11·0	10·6	12·3	11·9	11·4	11·1	10·6
Simla . . .	20—21	3·9	3·4	3·5	5·3	4·3	3·6	2·9	2·2	3·5	4·8	4·7	4·5	3·9
Lahore . . .	35—36	9·6	9·4	8·8	9·2	9·1	6·4	4·0	4·2	6·6	9·8	10·7	10·1	8·2
Jodhpur . . .	15—17	8·5	8·4	8·3	7·9	5·5	2·8	2·1	2·3	4·8	9·4	10·9	10·0	6·7
Allahabad . . .	35—36	11·1	11·6	12·6	12·3	9·1	5·0	3·0	2·6	4·2	9·3	12·3	12·4	8·8
Calcutta (Alipore) .	35—36	7·4	6·9	5·8	4·4	3·0	2·1	1·8	1·9	2·5	4·3	6·5	7·8	4·5
Bombay . . .	37	9·4	8·9	7·9	6·3	4·5	2·8	2·1	2·4	3·0	6·	9·2	10·0	6·1
Ootacamund . .	9—10	10·7	10·5	9·5	7·5	5·1	2·8	2·0	3·2	3·5	3·8	5·4	8·6	6·1

TABLE 12.—*Departures from the averages of Table 11 of mean monthly and annual depression of nocturnal radiation temperatures in 1912.*

Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	+2·4	+2·5	+1·9	+1·6	+2·2	+2·9	+3·8	+3·8	−0·2	0	+0·5	−1·2	+1·7
Simla	0	+2·3	+2·8	+0·1	+1·2	+1·4	+0·9	+1·7	+2·3	+3·0	+1·7	+2·8	+1·7
Lahore	−0·2	+2·6	+3·7	−0·4	+1·8	+2·5	+0·4	0	+3·9	+2·6	+2·0	+1·7	+1·7
Jodhpur	−0·9	+0·6	+2·5	−0·2	+2·5	+1·6	+1·0	+1·8	+2·4	+0·8	−0·3	+1·4	+1·1
Allahabad	+3·1	+4·1	+2·0	−0·6	+0·4	+1·4	−1·7	−0·6	+0·5	+1·4	−1·2	+0·9	+0·8
Calcutta (Alipore) . . .	−1·7	−1·3	−0·9	−1·0	−0·1	−0·1	−0·2	−0·3	+0·2	−0·9	−1·7	−1·7	−0·9
Bombay	−2·1	−2·4	−1·8	−1·3	−1·0	−0·5	+0·5	+0·1	+0·3	−1·2	−4·2	−2·3	−1·3
Ootacamund	+5·2	+1·6	+3·2	+2·0	+0·7	−1·0	−0·5	+0·4	+2·2	+0·7	+1·3	+3·7	+1·6

Temperature of the ground.

Observations of the temperature of the surface of the ground were recorded during the year 1912 at five stations, Lahore, Jaipur, Allahabad, Calcutta (Alipore) and Bombay; and of the temperature under ground at Bombay only.

The thermometers used for the purpose are verified standard mercurial thermometers with attached scales of porcelain, the scale being engraved also on the tube.

At Lahore the surface thermometer is read four times daily; at Jaipur at 10 and 16 hrs., at Allahabad at 6, 14, and 22 hrs., and at Calcutta at 13 hrs. 45 mins. At Bombay the two nearest to the surface are read five times a day, the deeper instruments being read once only.

The thermometers below the surface have their bulbs protected with pointed copper shoes which rest on ground

at the bottom of a wooden tube, inserted to the specified depth and projecting six inches above the surface, the upper ends being closed by a cap of metal or wood. Those at depths of five feet or more are attached to the lower ends of stout wooden bars of about half the diameter of the tube.

Those at one foot have a brass ring attached to the top of the wooden frame by which they are lifted; and in all these the lower part of the frame around the bulb has been cut away, and the lower end fitted with the copper shoe above mentioned.

The average monthly data are here given at length, but a paper published by Mr. R. L. Jones (Meteorological Memoirs, Vol. XV, Pt. III, 1904) makes it clear that the results of the measurement of underground temperatures lead to inconsistent results when analysed on the lines developed by Lord Kelvin. It may be that this is due to irregularities from percolation of rainfall as well as to imperfection in the mode of measurement.

Under these circumstances a table of departures from the average of past years is more likely to give indications of value than a statement of absolute temperatures recorded; such a table is therefore given below. The number of years included in the averages in the different cases lies between 21 and 27.

TABLE 13.—*Departures from normal of the mean monthly and annual temperatures of the air and of the ground in 1912.*

Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
LAHORE Air	+ 2·2	+ 4·8	— 0·7	— 1·2	+ 1·8	+ 2·8	+ 1·4	— 0·5	— 0·2	+ 1·3	+ 1·7	+ 0·5	+1·2
LAHORE Surface	+ 2·6	+ 3·6	+ 0·5	— 0·1	+ 0·3	+ 2·1	— 0·4	— 2·9	— 1·0	— 0·1	— 1·6	0	+0·3
JAIPUR Air	+ 1·9	+ 3·4	— 2·0	+ 0·3	+ 0·7	+ 4·4	+ 0·7	— 1·2	— 1·7	+ 0·5	— 0·5	—0·4	+0·5
JAIPUR Surface	—0·6	— 0·3	—2·8	—4·8	—2·6	+ 5·0	—4·7	—6·1	—3·9	—2·0	—5·1	—1·0	—2·4
ALLAHABAD Air	+ 0·6	+ 2·5	— 2·4	— 1·0	+ 0·4	+ 2·9	0	0	— 0·3	— 0·2	+ 1·1	— 1·2	+0·2
ALLAHABAD Surface	+ 1·5	+ 4·7	+ 0·9	+ 4·6	+ 4·1	+ 7·6	— 1·9	— 0·4	— 0·6	+ 0·7	— 0·8	+ 1·8	+3·2
CALCUTTA (ALIPORE) Air	+ 2·2	+ 3·5	+ 0·9	— 1·4	+ 0·6	+ 1·2	+ 0·6	+ 1·0	+ 1·6	+ 0·2	+ 0·5	— 0·1	+0·9
CALCUTTA (ALIPORE) Surface	+ 9·2	+ 3·2	— 6·1	— 4·4	+ 1·3	+ 1·7	— 2·1	— 1·5	— 0·6	— 3·9	— 3·7	+ 1·4	—0·5
BOMBAY Air	+ 2·0	+ 2·3	+ 0·5	+ 1·8	+ 0·9	+ 1·9	+ 0·9	+ 0·4	+ 1·5	+ 1·2	+ 0·4	+ 0·6	+1·2
BOMBAY 1 inch deep	+ 1·9	+ 1·5	+ 0·7	+ 1·8	+ 1·2	+ 1·9	+ 1·1	+ 0·4	+ 1·3	+ 1·0	+ 0·1	0	+1·1
BOMBAY 9 inches deep	+ 1·8	+ 1·9	+ 0·7	+ 1·4	+ 1·2	+ 1·5	+ 1·2	+ 0·6	+ 0·8	(No data.)			
BOMBAY 1 foot 8 inches deep	+ 1·8	+ 2·0	+ 1·3	+ 1·6	+ 1·5	+ 1·5	+ 1·4	+ 0·8	+ 0·8	+ 1·2	+ 0·9	+ 0·4	+1·3
BOMBAY 5 feet deep	+ 1·9	+ 1·8	+ 1·6	+ 1·4	+ 1·4	+ 1·4	+ 1·3	+ 1·0	+ 0·8	+ 1·0	+ 1·1	+ 0·7	+1·3
BOMBAY 11 feet deep	+ 1·6	+ 1·7	+ 1·7	+ 1·6	+ 1·3	+ 1·1	+ 0·6	+ 0·5	+ 0·6	+ 0·9	+ 1·1	+ 1·1	+1·2

Temperature.

The methods of exposing the thermometers at observatories in India were described in pages 18-19 of the Annual Report for 1890.

The method of deducing the daily and monthly means from the observed readings of the instruments was described in pages 5 and 6 of the Monthly Weather Review for January 1912.

The departures from normal of the mean temperature of each month given in Table A of the Monthly Weather Reviews are deduced by a comparison of the actual monthly means with the normal monthly means given in the "Indian Meteorological Memoirs," Volume XVII, pages 16 to 24.

The departures obtained by a comparison of these normal means with the actual monthly means in Table A of the Monthly Weather Reviews for the year are given in Table 14.

In Table B, published in each Monthly Review, the mean temperature of the day is calculated, as in the Daily Weather Report, by the formula:—daily mean $= \frac{\text{maximum} + \text{minimum}}{2}$. It differs from the true daily mean by amounts varying slightly with the season. In Table B of the Monthly Weather Reviews of the year 1912 are given the departures from normal of the monthly means of daily maximum and minimum temperatures, as well as the departures of the monthly means of daily mean temperature given by the formula ½ (maximum + minimum).

Tables 15 to 20 give summaries of the temperature departure data for each month of the year 1912 and for the whole year. In the first set of tables (Tables 15, 16 and 17) the departure data are given for the 15 chief political divisions, and in the last three tables (Tables 18 to 20) the data are given for the 33 sub-divisions:—

TABLE 14.—*Departure from normal of monthly and annual mean air temperatures at first and second class observatories in 1912.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
Bengal	Calcutta	+2·2	+3·5	+0·9	—1·4	+0·6	+1·2	+0·6	+1·0	+1·6	+0·2	+0·5	—0·1	+0·9
United Provinces of Agra and Oudh	Allahabad	+0·6	+2·5	—2·4	—1·0	+0·4	+2·9	0	0	—0·8	—0·2	+1·1	—1·2	+0·2
Punjab	Lahore	+2·2	+4·8	—0·7	—1·2	+1·8	+2·8	+1·4	—0·5	—0·2	+1·3	+1·7	+0·5	+1·2
Rajputana	Jaipur	+1·9	+3·4	—2·0	+0·3	+0·7	+4·4	+0·7	—1·2	—1·7	+0·5	—0·5	—0·4	+0·5
Bombay	Bombay	+2·0	+2·3	+0·5	+1·8	+0·9	+1·9	+0·9	+0·4	+1·5	+1·2	+0·4	+0·6	+1·2
Mysore	Bangalore	+0·6	+3·2	+1·6	+1·3	+2·8	+0·3	—0·3	+0·2	+0·9	—0·1	+0·9	—0·6	+0·9
Madras	Madras	—1·5	+1·5	+1·9	+0·1	+1·5	+2·6	+1·1	+1·2	+1·5	+0·9	+0·9	—0·6	+0·9
Kashmir	Srinagar	...	+7·9	...	...	...	...	...	...	...	...	...	...	...
Hill Stations excluding Kashmir and Baluchistan.	Simla	+2·2	+5·0	—2·5	—1·4	—0·9	+1·2	+0·2	—0·5	—0·8	+0·9	—2·6	+1·2	+0·2
	Katmandu	—0·2	+2·0	+0·1	+1·0	+1·2	+0·8	+0·4	+0·8	+0·7	+0·8	—0·5	—1·1	+0·5
Extra India	Seychelles	+0·4	+0·9	+2·6	+2·1	+1·7	+2·0	+0·8	+0·6	+0·3	+1·0	+2·6	+0·7	+1·3
	Mauritius	+1·3	+0·1	+0·2	+0·1	+1·1	+0·2	0	—0·3	+0·4	—0·3	—1·4	—1·5	0

TABLE 15.—*Departure of the mean monthly and annual maximum temperature from the normal in the fifteen chief political divisions of India in 1912, as given by all observatories.*

Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma	—1·2	—0·7	—0·3	+0·1	+1·0	+0·1	+0·2	—0·3	+0·2	—1·3	—0·7	—0·7	—0·3
Assam	+0·2	—0·1	—0·7	—6·4	—0·3	+1·0	—0·6	+0·3	+0·7	—1·0	—1·7	—1·1	—0·8
Bengal	+0·8	+1·9	+0·3	—5·2	—0·7	+0·9	—0·2	+0·7	+1·5	+0·2	—1·1	—0·6	—0·1
Bihar and Orissa	—0·8	+0·8	0	—4·2	—0·3	+2·9	—0·2	+0·2	+0·9	+1·2	—1·7	—1·7	—0·2
United Provinces	—1·1	+2·2	—1·3	—3·2	0	+4·6	+1·8	+0·4	—0·9	+0·3	—2·2	—1·6	—0·1
Punjab	—1·7	+5·1	—0·3	—4·0	—0·3	+3·4	+1·0	—0·9	—0·2	+1·4	—1·7	—0·4	+0·1
North-West Frontier Province	—2·7	+4·5	+0·1	—3·1	+0·2	+2·1	+1·3	—1·8	—0·9	+0·6	—1·7	—1·1	—0·2
Sind	+0·1	+5·0	+1·0	—0·9	+1·5	+3·3	+2·2	+1·5	+0·6	+1·2	—0·4	—0·2	+1·2
Rajputana	+1·3	+4·7	—0·7	—1·1	+1·3	+4·3	+0·8	—1·9	—1·0	+0·5	—3·8	+0·3	+0·4
Bombay	+2·1	+1·4	+0·3	+0·8	+1·5	+3·2	—0·1	—0·5	+2·2	+1·0	—0·8	+0·1	+0·9
Central India	+1·0	+2·3	—0·9	—1·5	+1·1	+6·5	+2·1	—0·8	—1·0	+0·5	—2·3	—1·0	+0·5
Central Provinces	+1·1	—0·2	—0·2	—1·3	+0·7	+3·2	+1·7	—0·9	+0·5	+1·7	—0·7	—0·6	+0·3
Hyderabad	+1·9	—0·5	+1·7	—0·1	+1·6	+5·9	—1·2	—1·1	+2·7	+1·7	—0·1	—0·3	+1·0
Mysore	+1·5	+0·7	+1·3	+1·7	+2·0	+0·9	—0·5	—0·6	+0·3	—0·7	—0·3	+0·1	+0·5
Madras	0	+0·6	+1·2	+0·8	+0·8	+1·7	—0·2	+0·5	+0·7	—0·3	—0·5	—0·9	+0·4

TABLE 16.—*Departure of the mean monthly and annual minimum temperature from the normal in the fifteen chief political divisions of India in 1912.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma	+2·6	+0·7	+1·0	—0·7	+0·7	+0·4	+0·3	+0·2	+0·3	+0·2	+1·8	—1·1	+0·5
Assam	+0·6	+1·8	—1·6	—2·7	+0·1	—1·3	—0·8	0	—0·2	—0·7	+0·9	+0·9	—0·3
Bengal	+0·9	+3·3	—0·9	—2·5	—0·2	—0·2	—0·1	+0·3	+0·3	—0·5	+0·2	+0·1	+0·1
Bihar and Orissa	+0·6	+2·5	—1·3	—1·5	+0·2	+0·3	—0·1	+0·2	—0·5	—0·8	—0·6	—1·3	—0·2
United Provinces	+2·0	+1·5	—3·4	—0·5	—0·4	+0·6	+0·7	+0·3	—2·2	—1·0	—0·3	—0·7	—0·3
Punjab	+3·3	+2·5	—2·3	+0·5	—0·1	+1·4	+1·4	+0·1	—3·6	0	+0·3	+0·6	+0·3
North-West Frontier Province	+1·9	+2·7	—2·7	+0·3	+0·7	—0·5	+2·0	+0·3	—4·9	—0·5	+0·5	+2·3	+0·2
Sind	+4·1	+3·1	—1·8	+2·6	+0·2	+0·7	+2·8	+1·6	—1·8	+0·7	—0·3	+0·1	+1·0
Rajputana	+3·2	+3·6	—3·3	+1·2	+0·9	+3·1	+0·3	—1·5	—2·8	—1·2	—0·1	—1·7	+0·1
Bombay	+1·9	+1·5	—1·2	+1·3	+0·8	+1·1	+0·3	+0·2	—0·4	+0·4	+0·1	—0·3	+0·5
Central India	+2·1	+3·2	—2·3	+1·2	+1·0	+2·5	+0·9	+0·3	—2·4	—1·4	+0·4	—0·6	+0·4
Central Provinces	+1·3	+3·1	—1·0	+0·5	+1·2	+4·1	+0·7	+0·1	—1·0	—0·5	+0·2	—1·3	+0·6
Hyderabad	+0·1	+3·4	+0·3	+1·2	+0·9	+3·2	+0·4	+0·1	+0·7	+0·9	+0·3	—2·0	+0·8
Mysore	—0·4	+3·4	+1·0	+1·5	+1·7	+0·4	+0·5	+0·6	+0·7	+0·3	+0·1	—1·1	+0·7
Madras	—1·0	+2·9	+1·7	+1·4	+1·1	+1·5	+0·7	+0·5	+0·7	+0·4	·0	—1·3	+0·7

TABLE 17.—*Departure of mean monthly and annual temperature from the normal in the fifteen chief political divisions of India in 1912.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma	+0·7	0	+0·4	—0·4	+0·3	+0·3	+0·3	0	+0·3	—0·5	+0·5	—0·9	+0·1
Assam	+0·4	+0·9	—1·1	—4·6	—0·1	—0·1	—6·7	+0·2	+0·3	—0·9	—0·4	—0·1	—0·5
Bengal	+0·9	+2·6	—0·3	—3·8	—0·4	+0·4	—0·1	+0·5	+0·9	—0·1	—0·5	—0·2	0
Bihar and Orissa	+0·1	+1·7	—0·7	—2·8	0	+1·6	—0·1	+0·2	+0·2	+0·2	—1·1	—1·5	—0·2
United Provinces	+0·5	+1·9	—2·4	—1·8	—0·2	+2·6	+1·3	+0·3	—1·5	—0·4	—1·3	—1·1	—0·2
Punjab	+0·8	+3·8	—1·3	—1·7	—0·2	+2·4	+1·2	—0·4	—1·9	+0·7	—0·7	+0·1	+0·2
North-West Frontier Province	—0·3	+3·6	—1·3	—1·4	+0·5	+0·8	+1·7	—0·8	—2·9	+0·1	—0·6	+0·7	0
Sind	+2·1	+4·0	—0·4	+0·8	+0·9	+2·0	+2·5	+1·6	—0·6	+1·0	—0·3	0	+1·1
Rajputana	+2·2	+4·1	—2·0	0	+1·2	+4·0	+0·6	—1·7	—1·8	—0·4	—2·0	—0·7	+0·3
Bombay	+2·0	+1·5	—0·4	+1·0	+1·1	+2·1	+0·1	—0·1	+0·9	+0·7	—0·3	—0·1	+0·7
Central India	+1·5	+3·0	—1·7	—0·1	+1·1	+4·5	+1·5	—0·3	—1·7	—0·5	—0·9	—0·8	+0·5
Central Provinces	+1·2	+1·4	—0·6	—0·4	+0·9	+6·2	+1·2	—0·4	—0·3	+0·6	—0·2	—1·0	+0·7
Hyderabad	+1·0	+1·4	+1·0	+0·6	+1·2	+4·5	—0·4	—0·5	+1·7	+1·3	+0·1	—1·1	+0·9
Mysore	+0·5	+2·1	+1·1	+1·6	+1·9	+0·7	0	0	+0·5	—0·2	—0·3	—0·5	+0·6
Madras	—0·5	+1·7	+1·4	+1·1	+0·9	+1·6	+0·3	+0·5	+0·7	0	—0·2	—1·1	+0·5
Mean of India	+0·9	+2·1	—0·5	—0·7	+0·6	+2·5	+0·6	—0·1	—0·3	+0·1	—0·5	—0·7	+0·3

TABLE 18.—*Departure of the monthly and annual maximum temperature from the normal in 33 sub-divisions of India in 1912.*

SUB-DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
1. Bay Islands	—2·6	—1·4	—2·6	—0·4	+0·1	—0·7	—0·7	—1·0	—0·8	—1·1	—0·4	+0·1	—1·0
2. Lower Burma	—1·9	—0·4	—0·3	+0·9	+1·2	+0·4	+0·2	—0·1	+0·7	—0·5	—0·5	—0·3	—0·1
3. Upper Burma	0	+1·3	—0·2	—1·3	+0·6	—0·4	+0·4	—0·7	—0·5	—2·6	—1·2	—1·3	—0·7
4. Assam	+0·2	—0·1	—0·7	—6·4	—0·3	+1·0	—0·6	+0·3	+0·7	—1·0	—1·7	—1·1	—0·8
5. Bengal	+0·8	+1·9	+0·3	—5·2	—0·7	+0·9	—0·3	+0·7	+1·5	+0·2	—1·1	—0·6	—0·1
6. Orissa	—0·2	—1·6	+0·1	—2·5	+0·4	+2·9	+0·2	0	+0·4	+0·1	—0·9	—2·2	—0·3
7. Chota Nagpur	—0·3	+1·0	+0·7	—2·9	—0·7	+4·7	+0·5	—0·1	+0·2	+0·7	—2·0	—2·1	0
8. Bihar	—0·4	+2·6	—0·5	—6·0	—0·6	+2·1	—0·8	+0·4	+1·6	+2·1	—1·9	—1·3	—0·2
9. United Provinces, East	—0·7	+2·1	—1·3	—3·5	—0·5	+4·2	+0·6	+0·5	+0·5	+1·7	—1·9	—1·7	0
10. Do. do., West	—1·5	+2·2	—1·3	—2·8	+0·6	+5·1	+3·0	+0·3	—2·4	—1·0	—2·8	—1·5	—0·2
11. Punjab, East and North	—1·6	+4·4	—0·7	—3·7	—0·1	+3·9	+1·4	—1·2	—0·3	+1·3	—1·9	—0·8	+0·1
12. Punjab, Southwest	—1·8	+6·9	+0·8	—4·6	—0·7	+2·4	+0·1	—0·3	+0·2	+1·5	—1·3	+0·4	+0·3
13. Kashmir	+2·1	+3·3	+0·4	+1·6	—2·9	—2·1	+4·6	+0·5	—0·3	+2·4	—0·3	—3·3	+0·5
14. North-West Frontier Province	—2·7	+4·5	+0·1	—3·1	+0·2	+2·1	+1·3	—1·8	—0·9	+0·6	—1·7	—1·1	—0·2
15. Baluchistan	—0·9	+5·7	0	—2·5	—0·9	—0·7	+3·0	+0·3	—5·9	+1·7	—3·5	—1·5	—0·4
16. Sind	+0·1	+5·0	+1·0	—0·9	+1·5	+3·3	+2·2	+1·5	+0·6	+1·2	—0·4	—0·2	+1·2
17. Rajputana, West	+1·8	+6·2	—0·6	—1·1	+1·6	+4·7	+1·8	—1·2	+0·6	+0·5	—3·7	+1·1	+0·9
18. Do., East	+1·2	+3·7	—0·7	—1·1	+1·2	+4·9	+0·3	—2·7	—1·7	+0·5	—3·9	—0·1	+0·1
19. Gujarat	+3·6	+3·3	+0·5	+0·7	+1·4	+2·9	—0·7	—0·9	+1·0	+0·9	—1·0	+0·8	+1·0
20. Central India, West	+2·3	+3·3	—0·3	—0·5	+1·5	+5·9	+1·9	—1·3	0	+2·1	—2·1	—0·1	+1·1
21. Do. do., East	—0·3	+2·2	—1·6	—2·4	+0·7	+7·1	+2·5	—0·3	—2·1	—1·0	—2·5	—2·9	—0·1
22. Berar	+2·3	+0·7	+1·4	+0·3	+1·5	+8·3	+1·4	—1·7	+2·7	+2·5	+0·5	+2·5	+1·9
23. Central Provinces, West	+0·9	+0·5	—0·4	—1·4	+0·7	+8·2	+2·5	—0·4	—0·1	+1·5	—1·4	—1·2	+0·8
24. Do. do., East	+0·3	—3·4	—1·0	—2·5	—0·3	+8·1	—0·8	—1·7	—0·2	+1·3	+0·5	—0·5	0
25. Konkan	—0·3	—1·0	—1·5	+0·6	+0·8	+0·8	+0·1	+0·2	+0·9	+0·6	—1·1	—1·6	—0·1
26. Bombay, Deccan	+2·1	+0·8	+1·3	+1·0	+2·2	+5·6	+0·6	—0·5	+4·8	+1·5	—0·3	+0·7	+1·7
27. Hyderabad, North	+2·9	—0·6	+2·5	+0·2	+1·9	+5·9	—1·2	—1·5	+3·5	+2·5	—0·2	+0·3	+1·3
28. Do., South	+1·7	—0·5	+1·5	—0·2	+1·5	+5·9	—1·2	—1·0	+2·3	+1·3	0	—0·6	+0·9
29. Mysore	+1·5	+0·7	+1·3	+1·7	+2·0	+0·9	—0·5	—0·6	+0·3	—0·7	—0·8	+0·1	+0·5
30. Malabar	—0·6	—0·1	—0·2	+0·8	+0·8	—0·4	—0·2	—0·4	+0·8	—1·0	—0·8	—0·9	—0·2
31. Madras, Southeast	—0·2	+1·2	+1·8	+0·7	+0·5	+0·9	+0·5	+1·1	+0·5	—0·6	—0·1	—0·5	+0·5
32. Do., Deccan	+1·9	+1·0	+1·9	+1·0	+1·9	+4·3	—0·3	+0·7	+2·0	+0·4	—0·6	—1·1	+1·1
33. Do., Coast North	—0·4	—0·3	+0·9	+0·5	+0·5	+3·7	—1·2	0	—0·1	+0·8	—0·7	—1·3	+0·2

TABLE 19.—*Departure of the monthly and annual minimum temperature from the normal in 33 sub-divisions of India in 1912.*

SUB-DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
1. Bay Islands	—1·4	+1·0	—1·6	+1·4	+0·2	—0·2	—0·4	—0·3	—0·8	—1·3	—1·1	+0·2	—0·4
2. Lower Burma	+2·7	+0·7	+0·9	—0·2	+0·8	+0·6	+0·5	+0·4	+0·6	+0·7	+1·4	—1·1	+0·7
3. Upper Burma	+2·3	+0·7	+1·3	—1·7	+0·6	+0·1	0	—0·1	—0·1	—0·5	+2·4	—1·2	+0·3
4. Assam	+0·6	+1·8	—1·6	—2·7	+0·1	—1·3	—0·8	0	—0·2	—0·7	+0·9	+0·9	—0·3
5. Bengal	+0·9	+3·3	—0·9	—2·5	—0·2	—0·2	—0·3	+0·3	+0·3	—0·5	+0·2	+0·1	0
6. Orissa	+1·2	+2·4	+0·6	—0·2	+1·2	+0·5	—0·1	+0·3	—0·3	—0·6	—0·5	—2·5	+0·2
7. Chota Nagpur	+0·7	+2·9	—0·7	—1·7	—0·2	+1·2	+0·1	+0·2	—0·3	+0·3	—0·4	—1·4	+0·1
8. Bihar	0	+2·4	—3·3	—2·5	—0·5	—0·2	—0·2	+0·1	—0·8	—1·5	—0·7	—0·6	—0·7
9. United Provinces, East	+1·4	+1·7	—3·2	—0·4	—0·8	—0·1	+0·1	0	—1·7	—1·1	—0·6	—0·8	—0·5
10. Do. do., West	+2·9	+1·3	—3·6	—0·5	+0·1	+1·5	+1·4	+0·3	—2·7	—0·9	+0·3	—0·5	0
11. Punjab, East and North	+3·1	+2·1	—2·5	+0·5	—0·2	+1·6	+1·4	—0·1	—3·5	—0·3	+0·5	+0·4	+0·3
12. Punjab Southwest	+3·8	+3·6	—1·6	+0·5	+0·2	+1·0	+1·5	+0·4	—3·9	+0·7	—0·1	+1·1	+0·6
13. Kashmir	+1·5	+1·0	—1·5	+1·7	—0·9	—2·6	+1·7	—0·2	—3·0	—0·3	—1·9	—2·2	—0·6
14. North-West Frontier Province	+1·9	+2·7	—2·7	+0·3	+0·7	—0·5	+2·0	+0·3	—4·9	—0·5	+0·5	+2·3	+0·2
15. Baluchistan	+2·0	+2·5	—2·5	—1·9	—2·3	—3·0	+2·7	—1·1	—8·7	—0·5	—5·4	+0·2	—1·5
16. Sind	+4·1	+3·1	—1·8	+2·6	+0·2	+0·7	+2·8	+1·6	—1·8	+0·7	—0·3	+0·1	+1·0
17. Rajputana, West	+2·5	+2·7	—3·9	—0·1	+0·5	+1·9	+1·2	—1·5	—2·9	—1·8	—2·1	—1·6	—0·4
18. Do., East	+3·7	+4·1	—2·7	+2·1	+1·2	+3·7	—0·2	—1·3	—2·7	—0·6	+0·6	—1·7	+0·5
19. Gujarat	+3·5	+1·7	—1·4	+1·3	+0·9	+1·2	+0·1	+0·1	—1·3	—0·7	—0·9	—0·3	+0·4
20. Central India, West	+2·2	+3·4	—1·8	+2·1	+1·7	+2·4	+0·7	+0·1	—2·4	—0·9	+0·1	—0·5	+0·6
21. Do. do., East	+2·1	+2·9	—2·9	+0·3	+0·3	+2·7	+1·2	+0·5	—2·4	—1·9	+0·7	—0·8	+0·2
22. Berar	+1·5	+3·2	0	+1·3	+1·8	+3·9	+0·8	+0·5	—0·1	+1·3	+0·1	—1·0	+1·1
23. Central Provinces, West	+1·3	+3·0	—1·3	+0·6	+1·3	+3·8	+0·8	+0·1	—1·5	—0·8	+0·3	—1·2	+0·5
24. Do. do., East	+1·5	+3·3	—1·0	—0·7	+0·5	+5·1	0	—0·1	—0·5	—1·1	0	—1·7	+0·4
25. Konkan	0	+1·2	—0·8	+0·6	+0·9	+0·5	+0·2	+0·2	+0·4	+0·7	+0·3	—0·8	+0·3
26. Bombay, Deccan	+1·4	+1·6	—1·1	+1·3	+0·5	+1·4	+0·8	+0·3	0	+1·6	+1·0	+0·1	+0·7
27. Hyderabad, North	+0·2	+3·8	—0·4	+1·5	+0·8	+2·5	+0·2	+0·1	+0·3	+1·7	+1·3	—0·5	+1·0
28. Do., South	+0·1	+3·2	+0·5	+1·0	+0·9	+3·5	+0·5	+0·2	+0·9	+0·5	—0·3	—2·7	+0·7
29. Mysore	—0·4	+3·4	+1·0	+1·5	+1·7	+0·4	+0·5	+0·6	+0·7	+0·3	+0·1	—1·1	+0·7
30. Malabar	—0·6	+2·5	+1·5	+1·6	+1·4	+0·9	+1·1	+0·8	+1·1	+0·8	+0·1	+0·2	+0·9
31. Madras, Southeast	—1·8	+2·9	+2·0	+1·4	+1·1	+1·2	+1·3	+0·7	+0·9	+0·2	+0·3	—1·3	+0·7
32. Do., Deccan	—0·3	+4·4	+1·5	+2·0	+1·4	+2·2	+0·8	+0·6	+0·7	+0·5	—0·5	—2·2	+0·8
33. Do., Coast, North	—0·3	+2·1	+1·1	+0·5	+0·5	+2·0	—0·9	—0·1	—0·1	+0·2	—0·2	—2·0	+0·2

TABLE 20.—*Departure of the mean monthly and annual temperature from the normal in 33 sub-divisions of India in 1912.*

Sub-division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
1. Bay Islands	—2·0	—0·2	—2·1	+0·5	+0·1	—0·5	—0·5	—0·7	—0·8	—1·2	—0·7	+0·1	—0·7
2. Lower Burma	+0·4	+0·1	+0·3	+0·3	+1·0	+0·5	+0·3	+0·1	+0·7	+0·1	+0·5	—0·7	+0·3
3. Upper Burma	+1·1	—0·3	+0·5	—1·5	+0·6	—0·1	+0·2	—0·4	—0·3	—1·5	+0·6	—1·3	—0·2
4. Assam	+0·4	+0·9	—1·1	—4·5	—0·1	—0·1	—0·7	+0·1	+0·3	—0·9	—0·4	—0·1	—0·5
5. Bengal	+0·9	+2·6	—0·3	—3·9	—0·5	+0·3	—0·3	+0·5	+0·9	—0·1	—0·5	—0·3	—0·1
6. Orissa	+0·5	+0·4	+0·3	—1·3	+0·8	+1·7	+0·1	+0·1	+0·1	—0·3	—0·7	—2·3	—0·1
7. Chota Nagpur	+0·2	+1·9	0	—2·3	—0·5	+2·9	+0·3	+0·1	—0·1	+0·5	—1·2	—1·7	0
8. Bihar	—0·2	+2·5	—1·9	—4·3	—0·5	+0·9	—0·5	+0·3	+0·4	+0·3	—1·3	—0·9	—0·4
9. United Provinces, East	+0·3	+1·9	—2·3	—1·9	—0·7	+2·1	+0·3	+0·3	—0·6	+0·3	—1·3	—1·3	—0·2
10. Do. do., West	+0·7	+1·7	—2·5	—1·7	+0·3	+3·3	+2·2	+0·3	—2·5	—0·9	—1·3	—1·0	—0·1
11. Punjab, East and North	+0·7	+3·3	—1·6	—1·6	—0·1	+2·7	+1·4	—0·7	—1·9	+0·5	—0·7	—0·2	+0·1
12. Punjab, Southwest	+1·0	+5·3	—0·4	—2·1	—0·3	+1·7	+0·8	+0·1	—1·9	+1·1	—0·7	+0·7	+0·4
13. Kashmir	+1·3	+2·1	—0·5	+1·7	—1·9	—2·3	+3·1	+0·1	—1·7	+1·1	—1·1	—2·7	0
14. North-West Frontier Province	—0·4	+3·6	—1·3	—1·4	+0·5	+0·8	+1·7	—0·7	—2·9	+0·1	—0·6	+0·6	0
15. Baluchistan	+0·5	+4·1	—1·3	—2·2	—1·6	—1·9	+2·9	—0·4	—7·3	+0·6	—4·5	—0·7	—1·0
16. Sind	+2·1	+4·1	—0·4	+0·9	+0·9	+2·0	+2·5	+1·5	—0·6	+0·9	—0·3	—0·1	+1·1
17. Rajputana, West	+1·9	+4·5	—2·3	—0·6	+1·1	+3·3	+1·5	—1·3	—1·1	—0·7	—2·9	—0·3	+0·3
18. Do., East	+2·5	+3·9	—1·7	+0·5	+1·2	+4·3	+0·1	—2·0	—2·2	—0·1	—1·7	—0·9	+0·3
19. Gujarat	+3·5	+2·5	—0·5	+1·3	+1·1	+2·1	—0·3	—0·4	—0·1	+0·1	—0·9	+0·3	+0·7
20. Central India, West	+2·3	+3·3	—1·1	+0·8	+1·6	+4·1	+1·3	—0·6	—1·2	+0·6	—1·0	—0·3	+0·8
21. Do. do., East	+0·9	+2·5	—2·3	—1·1	+0·5	+4·9	+1·9	+0·1	—2·3	—1·5	—0·9	—1·0	+0·1
22. Berar	+1·9	+1·9	+0·7	+0·8	+1·7	+6·1	+1·1	—0·6	+1·3	+1·9	+0·3	+0·7	+1·5
23. Central Provinces, West	+1·1	+1·7	—0·9	—0·4	+1·0	+6·0	+1·7	—0·1	—0·8	+0·3	—0·5	—1·2	+0·7
24. Do. do., East	+0·9	—0·1	—1·0	—1·6	+0·1	+6·6	—0·1	—0·9	—0·3	+0·1	+0·3	—1·1	+0·2
25. Konkan	—0·1	+0·1	—1·1	+0·6	+0·9	+0·7	+0·1	+0·2	+0·7	+0·7	—0·4	—1·2	+0·1
26. Bombay, Deccan	+1·7	+1·2	+0·1	+1·1	+1·3	+3·5	+0·7	—0·1	+2·4	+1·5	+0·3	+0·4	+1·2
27. Hyderabad, North	+1·5	+1·6	+1·1	+0·9	+1·3	+4·2	—0·5	—0·7	+1·9	+2·1	+0·5	—0·1	+1·1
28. Do., South	+0·9	+1·3	+1·0	+0·4	+1·2	+4·7	—0·3	—0·4	+1·6	+0·9	—0·1	—1·7	+0·8
29. Mysore	+0·5	+2·1	+1·1	+1·6	+1·9	+0·7	0	0	+0·5	—0·2	—0·3	—0·5	+0·6
30. Malabar	—0·6	+1·2	+0·7	+1·2	+1·1	+0·3	+0·5	+0·2	+0·9	—0·1	—0·3	—0·3	+0·4
31. Madras, Southeast	—1·0	+2·1	+1·9	+1·1	+0·8	+1·1	+0·9	+0·9	+0·7	—0·2	+0·1	—0·9	+0·6
32. Do., Deccan	+0·8	+2·7	+1·7	+1·5	+1·7	+3·3	+0·3	+0·7	+1·3	+0·5	—0·5	—1·7	+1·0
33. Do., Coast, North	—0·3	+0·9	+1·0	+0·5	+0·5	+2·9	—1·1	—0·1	—0·1	+0·5	—0·5	—1·7	+0·2

In the following discussion the year is divided into four seasons according to the following arrangement :—

1st.—The cold weather period, including the months of January and February.

2nd.—The hot weather period, including the months of March, April and May.

3rd.—The period of the south-west monsoon rains proper, including the months of June, July, August and September.

4th.—The period of the retreating south-west monsoon, including the months of October, November and December.

I—The cold weather period.—The winter rains commenced in northern India on the 4th January, somewhat later than usual, and were on the whole weak. Rainfall was on the other hand markedly in excess in the Central Provinces and Hyderabad owing mainly to the prevalence of abnormally disturbed weather in February.

The temperature conditions of the period did not differ greatly from the normal and were determined only partially by the abnormal features of cloud and rainfall distribution.

No well marked hot or cool waves were recorded.

(*a*) On the mean of the period day temperature was above the normal in all the larger divisions with the exception of Burma, but the amount of excess was small except in the case of Sind and Rajputana where it amounted to 3°.

TABLE 21.

Division.	Departure of maximum temperature from normal.		
	January.	February.	Period, January and February.
	°	°	°
Burma	—1·2	—0·7	—0·9
Assam	+0·2	—0·1	+0·1
Bengal	+0·8	+1·9	+1·3
Bihar and Orissa	—0·3	+0·8	+0·3
United Provinces	—1·1	+2·2	+0·5
Punjab	—1·7	+5·1	+1·7
North-West Frontier Province	—2·7	+4·5	+0·9
Sind	+0·1	+5·0	+2·5
Rajputana	+1·3	+4·7	+3·0
Bombay	+2·1	+1·4	+1·7
Central India	+1·0	+2·8	+1·9
Central Provinces	+1·1	—0·2	+0·5
Hyderabad	+1·9	—0·5	+0·7
Mysore	+1·5	+0·7	+1·1
Madras	0	+0·6	+0·3

(*b*) Night or minimum temperature was higher than usual throughout the plains of India, the excess being most marked in the Punjab, Sind, Rajputana and Central India where it averaged 3°.

TABLE 22.

Division.	Departure of minimum temperature from normal.		
	January.	February.	Period, January and February.
	°	°	°
Burma	+2·6	+0·7	+1·7
Assam	+0·6	+1·8	+1·2
Bengal	+0·9	+3·3	+2·1
Bihar and Orissa	+0·6	+2·5	+1·6
United Provinces	+2·0	+1·5	+1·7
Punjab	+3·3	+2·5	+2·9
North-West Frontier Province	+1·9	+2·7	+2·3
Sind	+4·1	+3·1	+3·6
Rajputana	+3·2	+3·6	+3·4
Bombay	+1·9	+1·5	+1·7
Central India	+2·1	+3·2	+2·7
Central Provinces	+1·3	+3·1	+2·2
Hyderabad	+0·1	+3·4	+1·7
Mysore	—0·4	+3·4	+1·5
Madras	—1·0	+2·9	+0·9

(*c*) The mean temperature of the period was in excess by 3° in Sind and Rajputana, and by 2° in Bengal, the Punjab, the North-West Frontier Province, Bombay and Central India, but nowhere else did the departures exceed 1½° in amount.

TABLE 23.

Division.	Departure of mean temperature from normal.		
	January.	February.	Period, January and February.
	°	°	°
Burma	+0·7	0	+0·3
Assam	+0·4	+0·9	+0·7
Bengal	+0·9	+2·6	+1·7
Bihar and Orissa	+0·1	+1·7	+0·9
United Provinces	+0·5	+1·9	+1·2
Punjab	+0·8	+3·8	+2·3
North-West Frontier Province	—0·3	+3·6	+1·6

TABLE 23—*contd.*

DIVISION.	DEPARTURE OF MEAN TEMPERATURE FROM NORMAL.		
	January.	February.	Period, January and February.
	°	°	°
Sind	+2·1	+4·0	+3·1
Rajputana	+2·2	+4·1	+3·1
Bombay	+2·0	+1·5	+1·7
Central India	+1·5	+3·0	+2·3
Central Provinces	+1·2	+1·4	+1·3
Hyderabad	+1·0	+1·4	+1·2
Mysore	+0·5	+2·1	+1·3
Madras	—0·5	+1·7	+0·6

The temperature conditions in Persia, Baluchistan and the Himalayas were on the whole similar to those of the plains of northern India.

TABLE 24.

STATION.	DEPARTURE FROM NORMAL OF PERIOD, JANUARY AND FEBRUARY.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Aden	—0·9	+0·3	—0·3
Baghdad	+0·5	+3·2	+1·9
Bushire	—0·1	—0·2	—0·1
Tehran	+2·5	+2·0	+2·3
Ispahan	—2·1	—0·7	—1·4
Jask	+1·5	+0·5	+1·0
Muscat	+5·2	—0·6	+2·3
Meshed	...	+1·7	...
Chaman	+2·5	+2·5	+2·5
Quetta	+2·2	+1·9	+2·1
Cherat	+1·9	+1·6	+1·7
Murree	+0·7	+2·2	+1·5
Gilgit	+2·2	+0·7	+1·5
Kashgar	— 0·8	—0·1	—0·5
Srinagar	+8·0	+5·6	+6·8
Skardu	—1·9	—0·3	—1·1
Simla	+3·8	+3·3	+3·5
Leh	+2·5	—0·8	+0·9
Chakrata	+4·7	—0·1	+2·3
Muktesar	+2·9	+1·3	+2·1
Darjiling	+1·1	+1·5	+1·3

The lowest temperatures of the year were by no means remarkable and occurred at different times in different parts of northern and central India, an indication that they were caused by local actions and not by the passage of a cold wave as is ordinarily the case.

II.—The hot weather period.—The abnormally dry weather which had characterized February held until the end of the third week in March. During the rest of the period a series of disturbances of the cold weather type passed into India from the west, but their influence on the weather was exerted chiefly in the extreme north.

Although the majority of these disturbances did not produce any heavy or widespread precipitation, nevertheless they were instrumental in delaying materially the establishment of the usual hot weather conditions. Owing to the prolongation of the winter characteristics thunderstorms and dust-storms were neither so frequent nor so numerous as usual, and in May there was an almost complete absence on the west coast of the Peninsula of the preliminary irruptions of the monsoon winds which ordinarily occur and are the forerunners of the permanent advance of the monsoon current.

The precipitation of the season fell short of the normal in all parts of the Indian region with the exception of Lower Burma, Assam, Bengal, Bihar, the Punjab Southwest, Kashmir and Malabar.

On the mean of the period temperature in the plains differed but little from the normal.

TABLE 25.

DIVISION.	DEPARTURE FROM NORMAL OF PERIOD, MARCH TO MAY.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Burma	+0·3	+0·3	+0·3
Assam	—2·5	—1·4	—1·9
Bengal	—1·9	—1·2	—1·5
Bihar and Orissa	—1·5	—0·9	—1·2
United Provinces	—1·5	—1·4	—1·5
Punjab	—1·5	—0·6	—1·1
North-West Frontier Province	—0·9	—0·6	—0·7
Sind	+0·5	+0·3	+0·4
Rajputana	—0·2	—0·4	—0·3
Bombay	+0·9	+0·3	+0·6
Central India	—0·4	0	—0·2
Central Provinces	—0·3	+0·2	—0·1
Hyderabad	+1·1	+0·8	+0·9
Mysore	+1·7	+1·4	+1·5
Madras	+0·9	+1·4	+1·1

In the highlands to the west of the Indus as well as in Kashmir the departures from normal of temperature were small and irregular and did not indicate the presence of any marked abnormal snowfall influence.

TABLE 26.

STATION.	DEPARTURE FROM NORMAL OF PERIOD, MARCH TO MAY.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Aden	—1·4	+0·8	—0·3
Baghdad	+4·2	+1·2	+2·7
Bushire	—0·7	—0·4	—0·5
Tehran	—1·1	+0·5	—0·3
Ispahan	+0·9	+1·2	+1·1
Jask	+0·8	—0·3	+0·3
Muscat	+6·4	—2	+2·6
Meshed	...	—3·0	...
Chaman	—1·8	—3·2	—2·5
Quetta	—0·4	—1·2	—0·8
Cherat	—2·3	—1·6	—2·2
Murree	—2·8	+1·6	—0·6
Gilgit	+0·4	—1·1	—0·3
Kashgar	+4·7	+1·3	+3·3
Srinagar	—3·0	—0·7	—1·9
Skardu	+0·9	+1·4	+1·1
Simla	—1·2	—1·6	—1·4
Leh	+1·6	—0·	+0·7
Chakrata	—0·1	—2·6	—1·3
Mukteswar	—1·5	—2·1	—1·8
Darjiling	—0·7	—0·8	—0·7

The highest temperatures of the year were recorded generally between the 6th and 18th May in Orissa, the south-west Punjab, Sind, Rajputana, Gujarat, Central India, the Central Provinces and the Deccan, in the first week of June in the west of the United Provinces and in Chota Nagpur, in the third week of June in Assam, the United Provinces East and the east and north of the Punjab and in the first half of July in Kashmir and Baluchistan. They were unprecedentedly high in the case of several stations in the Deccan. The absolute maximum (126°·1) was as usual registered at Jacobabad.

III.—The south-west monsoon period.—The monsoon was from five to twelve days behind the normal date in becoming established on the west coast of the Peninsula, and although occasional rainfall occurred in northern and central India during the last fortnight of June and the first week of July, the rains proper did not set in fully in the interior until July 10. During the next four weeks the monsoon was unusually vigorous and gave abundant rain. A break supervened between August 12 and 23, after which the current became active again. The rains came to an end in northwest India in the beginning of September, about a fortnight earlier than usual. In September the monsoon was exceedingly fitful and, except during the first and last weeks, gave comparatively little rain.

The total rainfall of the period differed from the normal by less than 20 per cent, over by far the greater part of the country. It was in defect upwards of 20 per cent. only in Kashmir and Hyderabad North, while in Mysore alone did the fall exceed the normal by more than 20 per cent.

Temperature of the period was very nearly normal, almost all the provincial departures being less than 1° in magnitude.

TABLE 27.

DIVISION.	DEPARTURE FROM NORMAL OF PERIOD, JUNE TO SEPTEMBER.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Burma	+0·1	+0·3	+0·2
Assam	+0·3	—0·6	—0·1
Bengal	+0·7	+0·1	+0·4
Bihar and Orissa	+0·9	0	+0·5
United Provinces	+1·5	—0·2	+0·7
Punjab	+0·8	—0·2	+0·3
North-west Frontier Province	+0·2	—0·8	—0·3
Sind	+1·9	+0·8	+1·4
Rajputana	+0·7	—0·2	+0·3
Bombay	+1·2	+0·3	+0·7
Central India	+1·7	+0·3	+1·0
Central Provinces	+2·4	+1·0	+1·7
Hyderabad	+1·6	+1·1	+1·3
Mysore	0	+0·5	+0·3
Madras	+0·7	+0·9	+0·8

In the Himalayas and the region to the west of the Indus the conditions were variable but not far removed from the average.

TABLE 28.

STATION.	DEPARTURE FROM NORMAL OF PERIOD, JUNE TO SEPTEMBER.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Aden	−0·3	−0·1	−0·2
Baghdad	+4·1	−0·1	+2·0
Bushire	−1·2	+0·1	−0·5
Tehran	−0·1	+0·7	+0·3
Ispahan	−1·8	+0·2	−0·5
Jask	+1·3	+0·1	+0·7
Muscat	+7·1	0	+3·5
Meshed	...	−5·7	...
Chaman	−1·8	−3·1	−2·5
Quetta	+0·2	−1·9	−0·9
Cherat	−1·1	−0·5	−0·8
Murree	−0·5	+2·5	+1·0
Gilgit	+0·7	−2·9	−1·1
Srinagar	+1·0	−1·2	−0·1
Skardu	+1·1	+0·5	+0·8
Simla	−0·3	+0·4	+0·1
Leh	−1·5	−1·3	−1·4
Chakrata	+0·9	−1·1	−0·1
Mukteswar	−1·4	−2·5	−1·9
Darjiling	+1·2	+0·5	+0·9

IV.—The retreating south-west monsoon period.—In October the activity of the monsoon was displayed chiefly in Bengal, Assam, Burma and the south of the Peninsula to the detriment of the Gangetic plain and the central parts of the country. During November on the other hand the precipitation was above the normal over the greater part of the country. December was unusually dry except in Baluchistan.

There was nothing strikingly abnormal in the temperature conditions of the period in the plains of India.

TABLE 29.

DIVISION.	DEPARTURE FROM NORMAL OF PERIOD, OCTOBER TO DECEMBER.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Burma	−0·9	+0·3	−0·3
Assam	−1·3	+0·4	−0·5
Bengal	−0·5	−0·1	−0·3
Bihar and Orissa	−0·7	−0·9	−0·8
United Provinces	−1·2	−0·7	−0·9
Punjab	−0·2	+0·3	0
North-West Frontier Province	−0·7	+0·8	+0·1
Sind	+0·2	+0·2	+0·2
Rajputana	−1·0	−1·0	−1·0
Bombay	+0·1	+0·1	+0·1
Central India	−0·9	−0·5	−0·7
Central Provinces	+0·1	−0·5	−0·2
Hyderabad	+0·4	−0·3	+0·1
Mysore	−0·5	−0·2	−0·2
Madras	−0·6	−0·3	−0·5

In Persia, Baluchistan and the Himalayas also temperature did not vary to any great extent from the normal.

TABLE 30.

STATION.	DEPARTURE FROM NORMAL OF PERIOD, OCTOBER TO DECEMBER.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Aden	−0·7	−0·3	−0·5
Baghdad	+0·6	−1·0	−0·2
Bushire	−0·8	−0·9	−0·9
Tehran	−1·3	−1·3	−1·3
Ispahan	+0·3	−0·4	0
Jask	−0·7	−1·4	−1·1
Muscat	+6·3	−2·3	+2·0
Meshed	...	−3·6	...

TABLE 30—*concld.*

STATION.	DEPARTURE FROM NORMAL OF PERIOD, OCTOBER TO DECEMBER.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Chaman	—1·7	—2·5	—2·1
Quetta	—0·5	—1·3	—0·9
Cherat	—2·1	—1·0	—1·5
Murree	—2·6	+0·7	—0·9
Gilgit	+0·5	—1·9	—0·7
Srinagar	+0·7	—0·4	+0·1
Skardu	—1·9	—1·9	—1·9
Simla	+0·1	—0·1	0
Leh	—0·9	—1·6	—1·3
Chakrata	+1·5	—2·1	—0·3
Mukteswar	—1·6	—2·2	—1·9
Darjiling	+1·4	+0·4	+0·9

The year.—Temperature in the Indian plains was in excess by more than half a degree in January, February, May, June and July in the first four of which months, as also in the early part of July, weather was very dry over the greater part of the country. It was on the other hand about half a degree below the normal in March, April, November and December; the defect in April and November accompanied an excess of precipitation, while that of March was associated with a marked dryness of the air and low cloud amount. For the lowness in December the reasons are not apparent, although in part it was attributable to the disturbed weather of the previous month.

The mean departure of the twelve months was +0·3°, which is 0·2° greater than that of the previous year.

TABLE 31.

MONTH.	Departure from normal of mean temperature.
	°
January	+0·9
February	+2·1
March	—0·5
April	—0·7
May	+0·6
June	+2·5
July	+0·6
August	—0·1
September	—0·3
October	+0·1
November	—0·5
December	—0·7
Year	+0·3

Atmospheric pressure.

Full information regarding the types of barometers in use at Indian observatories and of the methods of reducing the observations and obtaining the mean daily and monthly pressures will be found in pages 4 and 5 of the Monthly Review for January 1912.

In Table A, called Table II prior to 1907, of each Monthly Review the monthly mean daily pressure (corrected for temperature) is given in the seventh column, and the departure from the normal in the eighth column. The normal monthly mean pressure values were recalculated in 1904 for all first and second class stations, and will be found in pages 66-69 of the "Indian Meteorological Memoirs," Volume XVII. The departure data in the Monthly Reviews for the year 1912, were obtained by a comparison of the actual monthly means with these normals; the departures of the monthly pressure of all first and second class stations in 1912 are given in Table 32. The figures in the seventh and eighth columns of Table A, appended to the present Annual Summary, giving data of the mean pressure of the air and its departure from the normal for all first and second class stations, are comparable with the corresponding data of previous years published in the Annual Reports and Annual Summaries.

In the ninth column of Table A in each Monthly Review are given the mean pressures reduced to sea-level and corrected to constant gravity (Lat. 45°). These are not directly comparable with the sea-level pressure values of the years 1875-90 as given in the Annual Reports for those years, for previous to 1891 no correction was made to reduce the monthly pressure means to standard gravity.

In Table B of each Monthly Review, and also in that appended to the Annual Summary, are given the pressure data for 8 hours local time. The fourth column in that table gives the mean 8 hours pressures for the month corrected for temperature. In the fifth column are given the departures of these mean 8 hours pressures from the normal pressures.

TABLE 32.—*Departure from normal of monthly and annual mean pressure of first and second class stations in 1912.*

DIVISION.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		"	"	"	"	"	"	"	"	"	"	"	"	"
Bengal	Calcutta	+·014	—·020	—·004	+·055	+·023	+·006	—·024	—·022	+·028	+·021	—·021	+·010	+·005
United Provinces of Agra and Oudh.	Allahabad	+·034	—·021	+·018	+·063	+·023	—·013	—·029	—·010	+·036	+·023	+·005	+·022	+·013
Punjab	Lahore	+·039	—·031	0	+·060	+·026	—·026	—·012	+·002	+·021	+·014	+·004	+·018	+·010
Rajputana	Jaipur	+·028	—·019	+·001	+·039	+·012	—·017	—·027	+·003	+·028	+·020	—·005	+·021	+·008
Bombay	Bombay	+·037	—·004	+·013	+·032	+·014	—·012	—·042	—·014	+·012	+·013	—·013	+·018	+·005
Mysore	Bangalore	+·039	—·003	+·017	+·055	+·029	—·002	—·015	+·002	+·003	+·007	0	+·023	+·013
Madras	Madras	+·037	—·012	—·006	+·053	+·011	—·022	—·032	—·027	—·006	0	—·015	+·026	+·001
Kashmir	Srinagar	...	+·014	...	...	...	...	...	...	...	...	...	...	...
Hill stations exoluding Kashmir and Baluchistan.	Simla	+·049	+·037	—·011	+·036	+·045	+·012	+·009	+·014	+·013	+·027	—·006	+·017	+·020
	Katmandu	+·074	+·059	+·033	+·090	+·092	+·056	+·060	+·064	+·049	+·025	—·001	+·008	+·051
Extra India	Seychelles	+·042	0	+·017	+·003	—·026	—·014	—·047	—·007	—·021	+·021	+·016	+·019	+·001
	Mauritius	+·054	—·077	—·031	+·029	—·039	—·023	—·019	0	—·024	+·002	+·023	+·032	—·006

TABLE 33.—*Departure of the mean monthly pressure from the normal in the fifteen chief political divisions of India in 1912.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	"	"	"	"	"	"	"	"	"	"	"	"	"
Burma	+·022	+·011	+·010	+·057	+·019	—·020	—·011	—·013	+·002	+·031	—·017	+·014	+·009
Assam	+·021	—·006	+·003	+·067	+·025	—·015	—·007	—·011	+·010	+·023	—·011	+·005	+·011
Bengal	+·021	—·013	+·004	+·073	+·034	—·005	—·012	—·012	+·021	+·019	—·013	+·014	+·011
Bihar and Orissa	+·032	—·011	+·003	+·068	+·032	—·004	—·023	—·017	+·031	+·021	—·001	+·023	+·018
United Provinces	+·028	—·013	+·008	+·062	+·034	—·020	—·025	—·006	+·021	+·025	+·002	+·016	+·011
Punjab	+·039	—·010	+·004	+·062	+·033	—·021	—·011	+·005	+·022	+·022	+·009	+·026	+·015
North-West Frontier Province	+·022	—·036	—·012	+·039	+·018	—·017	—·031	—·020	+·009	—·009	—·015	+·013	—·003
Sind	+·022	—·032	+·021	+·043	+·026	—·012	—·037	—·008	+·029	+·017	—·003	+·028	+·008
Rajputana	+·020	—·017	+·003	+·039	+·016	—·016	—·030	+·004	+·025	+·024	—·011	+·019	+·005
Bombay	+·028	—·017	+·010	+·039	+·015	—·012	—·032	—·011	+·014	+·015	—·006	+·017	+·004
Central India	+·031	—·014	+·007	+·046	+·026	—·003	—·033	—·004	+·040	+·031	+·002	+·028	+·013
Central Provinces	+·032	—·016	+·001	+·045	+·020	—·004	—·033	—·010	+·041	+·031	+·001	+·029	+·011
Hyderabad	+·041	—·010	+·002	+·048	+·017	—·007	—·030	—·010	+·015	+·013	—·007	+·023	+·008
Mysore	+·041	+·006	+·021	+·046	+·020	0	—·024	—·003	+·004	+·007	—·005	+·019	+·011
Madras	+·040	—·001	+·007	+·050	+·017	—·004	—·027	—·012	0	+·003	—·004	+·022	+·008
Mean of India	+·030	+·010	+·006	+·053	+·023	—·011	—·025	—·008	+·019	+·021	—·005	+·020	+·009

I.—The cold weather period.—Pressure in the plains was in large excess in January, and in slight defect in February.

TABLE 34.

MONTH.	Departure from normal of mean 8 hrs. pressure.
	"
January	+·030
February	—·010

The excess in January was as marked in the Indian Ocean as in India, and was therefore caused chiefly by general and not local actions. Further it was not a mere temperature effect as temperature was on the whole very slightly above the normal. The defect in February on the other hand accompanied a distinct excess of temperature.

TABLE 35.

STATION.	DEPARTURE OF PRESSURE FROM NORMAL.		
	January.	February.	Period, January and February.
	"	"	"
Mauritius	+·054	—·077	—·011
Seychelles	+·042	0	+·021
Zanzibar	+·036	0	+·018
Aden	+·031	+·024	+·027
Baghdad	+·051	—·009	+·021
Bushire	—·015	—·030	—·023
Jask	—·023	—·014	—·019
Muscat	0	—·004	—·002

Notwithstanding that January was a wet and February a dry month in northern India, the local features of the pressure distribution were similar in both months.

TABLE 36.

DIVISION.	EXCESS OF PRESSURE DEPARTURE OVER GEOGRAPHICAL MEAN FOR INDIA.		
	January.	February.	Period, January and February.
	"	"	"
Burma	—·008	+·021	+·007
Assam	—·009	+·004	—·003
Bengal	—·009	—·003	—·006
Bihar and Orissa	+·002	—·001	+·001
United Provinces	—·002	—·003	—·003
Punjab	+·009	0	+·005
North-West Frontier Province	—·008	—·026	—·017
Sind	—·008	—·022	—·015
Rajputana	—·010	—·007	—·009
Bombay	—·002	—·007	—·005
Central India	+·001	—·004	—·001
Central Provinces	+·002	—·006	—·002
Hyderabad	+·011	0	+·005
Mysore	+·011	+·016	+·013
Madras	+·010	+·009	+·009

The vertical gradient in northern India was on the whole normal in January and very weak in February; it was on the other hand considerably stronger than usual throughout in the south of the Peninsula.

TABLE 37.

PAIR OF STATIONS.	DEPARTURE FROM NORMAL OF VERTICAL PRESSURE DIFFERENCES.		
	January.	February.	Period, January and February.
	"	"	"
Jacobabad and Quetta	—·006	—·077	—·041
Lahore and Leh	+·038	—·113	—·037
Peshawar and Murree	—·005	—·067	—·036
Ludhiana and Simla	+·004	—·045	—·021
Roorkee and Chakrata	—·002	—·027	—·015
Dhubri and Darjiling	+·008	+·004	+·006
Deesa and Mount Abu	—·022	—·031	—·026
Khandwa and Pachmarhi	—·004	—·013	—·009
Madura and Kodaikanal	+·036	+·020	+·028

II.—The hot weather period.—Pressure in the plains was above the normal in all the three months. The excess was very large in April when it amounted to about a twentieth of an inch.

TABLE 38.

MONTH.	Departure from normal of mean 8 hrs. pressure.
	"
March	+·006
April	+·053
May	+·023

It is noteworthy that over a large part of the Indian region the temperature conditions in April differed to no important extent from the normal, thus showing that the high density of the air was not due merely to variations of temperature of the lower atmospheric strata.

The local peculiarities of the pressure distribution were nowhere strongly marked.

TABLE 39.

Division.	Excess of pressure departure over geographical mean for India.			
	March.	April.	May.	Period, March to May.
	"	"	"	"
Burma	+·004	+·004	—·004	+·001
Assam	—·003	+·034	+·002	+·011
Bengal	—·002	+·020	+·011	+·010
Bihar and Orissa	—·003	+·015	+·009	+·007
United Provinces	+·002	+·009	+·011	+·007
Punjab	—·002	+·009	+·010	+·006
North-West Frontier Province.	—·013	—·014	—·005	—·012
Sind	+·015	—·010	+·003	+·003
Rajputana	—·003	—·014	—·007	—·008
Bombay	+·004	—·014	—·008	—·006
Central India	+·001	—·007	+·003	—·001
Central Provinces	—·005	—·008	—·003	—·005
Hyderabad	—·004	—·005	—·006	—·005
Mysore	+·015	—·007	—·003	+·002
Madras	+·001	—·003	—·006	—·003

In Persia and Arabia, as in India, pressure was above the normal throughout the period. In the Indian Ocean the pressure conditions were however not so steady. During May pressure was distinctly below the normal at Mauritius and Seychelles, a circumstance favourable to the prospects of a good monsoon over India.

TABLE 40.

Station.	Departure of pressure from normal.			
	March.	April.	May.	Period, March to May.
	"	"	"	"
Mauritius	—·031	+·029	—·039	—·014
Seychelles	+·017	+·003	—·026	—·002
Zanzibar	+·036	+·008	—·003	+·013
Aden	+·035	+·025	+·044	+·035
Baghdad	—·002	—·042	+·003	—·014
Bushire	+·032	+·028	+·028	+·029
Jask	+·008	+·017	—·001	+·008
Muscat	+·046	+·045	+·046	+·046

The vertical gradient over northern India was, as is usually the case when the winter conditions are protracted much beyond the normal date, distinctly steeper than usual in March and April, and of about normal value in May.

TABLE 41.

Pair of stations.	Departure from normal of vertical pressure differences.			
	March.	April.	May.	Period, March to May.
	"	"	"	"
Jacobabad and Quetta	—·023	—·002	—·008	—·011
Lahore and Leh	+·030	+·042	+·004	+·025
Peshawar and Murree	+·004	+·007	—·008	+·001
Ludhiana and Simla	+·015	+·030	—·012	+·011
Roorkee and Chakrata	+·016	+·036	—·004	+·016
Dhubri and Darjiling	+·044	+·081	+·026	+·050
Deesa and Mount Abu	—·002	+·004	—·022	—·007
Khandwa and Pachmarhi	+·012	+·012	+·001	+·008
Madura and Kodaikanal	+·006	+·043	+·023	+·024

III.—The southwest monsoon period.—In the plains barometric pressure was in defect during the first three months of the season, and higher than usual in September.

TABLE 42.

Month.	Departure from normal of mean 8 hours pressure.
	"
June	—·011
July	—·025
August	—·006
September	+·019

The local modifications of the distribution of pressure were very feebly marked.

TABLE 43.

Division.	Excess of pressure departure over geographical mean for India.				
	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"
Burma	—·009	+·014	—·005	—·017	—·004
Assam	—·004	+·018	—·003	—·009	+·001
Bengal	+·006	+·013	—·004	+·002	+·004
Bihar and Orissa	+·007	+·002	—·009	+·012	+·003

TABLE 43—*contd.*

DIVISION.	EXCESS OF PRESSURE DEPARTURE OVER GEOGRAPHICAL MEAN FOR INDIA.				
	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"
United Provinces	—·009	0	+·002	+·002	—·001
Punjab	—·010	+·014	+·013	+·003	+·005
North-West Frontier Province.	—·006	—·006	—·012	—·010	—·009
Sind	—·001	—·012	0	+·010	—·001
Rajputana	—·005	—·005	+·012	+·006	+·002
Bombay	—·001	—·014	—·003	—·005	—·006
Central India	+·008	—·008	+·004	+·021	+·006
Central Provinces	+·007	—·008	—·002	+·022	+·005
Hyderabad	+·004	—·005	—·002	—·004	—·002
Mysore	+·011	+·001	+·005	—·015	+·001
Madras	+·007	—·002	—·004	—·019	—·005

In the Indian Ocean the pressure conditions were throughout such as are associated with a good monsoon over the land area of India. In Persia the changes of pressure from month to month were similar in character to those in the Indian region.

TABLE 44.

STATION.	DEPARTURE OF PRESSURE FROM NORMAL.				
	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"
Mauritius	—·023	—·019	0	—·024	—·017
Seychelles	—·014	—·047	—·007	—·021	—·022
Zanzibar	—·006	—·011	+·010	—·021	—·007
Aden	+·022	+·001	—·005	+·044	+·015
Baghdad	—·061	—·041	—·028	—·004	—·033
Bushire	+·006	—·045	—·006	+·039	—·001
Jask	—·015	—·069	—·025	+·035	—·019
Muscat	+·008	—·067	—·014	+·041	—·008

The vertical gradient over north-west India was weak during June and July, and of about normal intensity in August and September; while in southern India it was more than usually steep in the terminal months, and of the average strength in July and August.

TABLE 45.

PAIR OF STATIONS.	DEPARTURE FROM NORMAL OF VERTICAL PRESSURE DIFFERENCES.				
	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"
Jacobabad and Quetta	—·041	—·032	—·017	—·008	—·025
Lahore and Leh	—·044	—·021	+·001	+·027	—·009
Peshawar and Murree	—·013	—·028	—·022	—·005	—·017
Ludhiana and Simla	—·029	—·018	—·009	+·011	—·011
Roorkee and Chakrata	—·022	—·016	—·002	+·007	—·008
Dhubri and Darjiling	+·023	+·025	+·015	...	...
Deesa and Mount Abu	—·029	—·009	—·002	—·003	—·011
Khandwa and Pachmarhi	—·001	—·006	+·001	+·005	0
Madura and Kodaikanal	+·026	—·002	+·007	+·022	+·013

IV.—The retreating south-west monsoon period.—Pressure ranged well above the normal in October and December, and was in very slight defect in November.

TABLE 46.

MONTH.	Departure from normal of mean 8 hours pressure.
	"
October	+·021
November	—·005
December	+·020

The local distribution of pressure presented no marked abnormal features.

TABLE 47.

DIVISION.	EXCESS OF PRESSURE DEPARTURE OVER GEOGRAPHICAL MEAN FOR INDIA.			
	October.	November.	December.	Period, October to December.
	"	"	"	"
Burma	+·010	—·012	—·006	—·003
Assam	+·008	—·006	—·015	—·004
Bengal	—·002	—·008	—·006	—·005
Bihar and Orissa	0	+·004	+·003	+·002
United Provinces	+·004	+·007	—·004	+·002
Punjab	+·001	+·014	+·006	+·007
North-West Frontier Province	—·030	—·010	—·007	—·016
Sind	—·004	+·002	+·008	+·002
Rajputana	+·003	—·006	—·001	—·001

TABLE 47—*concld.*

DIVISION.	EXCESS OF PRESSURE DEPARTURE OVER GEOGRAPHICAL MEAN FOR INDIA.			
	October.	November.	December.	Period, October to December.
	"	"	"	"
Bombay	—·006	—·001	—·003	—·003
Central India	+·010	+·007	+·008	+·008
Central Provinces	+·010	+·006	+·009	+·008
Hyderabad	—·008	—·002	+·003	—·002
Mysore	—·024	0	—·001	—·005
Madras	—·018	+·001	+·002	—·005

The excess in October and December and the defect in November extended westwards into Persia. In the Indian Ocean the barometer stood higher than usual throughout the period.

TABLE 48.

STATION.	DEPARTURE OF PRESSURE FROM NORMAL.			
	October.	November.	December.	Period, October to December.
	"	"	"	"
Mauritius	+·002	+·023	+·032	+·021
Seychelles	+·031	+·016	+·019	+·022
Zanzibar	+·026	+·005	+·023	+·018
Aden	+·025	+·026	+·001	+·015
Baghdad	+·017	+·035	+·079	+·044
Bushire	+·016	—·012	+·023	+·009
Jask	+·015	—·010	0	+·002
Muscat	+·015	—·007	+·017	+·008

The vertical gradient in north-west India was on the whole weak in October, and approximately normal in November and December. In north-east India and the south of the Peninsula pressure was in defect at the level of the hills, relatively to the plains, throughout the period.

TABLE 49.

PAIR OF STATIONS.	DEPARTURE FROM NORMAL OF VERTICAL PRESSURE DIFFERENCES.			
	October.	November.	December.	Period, October to December.
	"	"	"	"
Jacobabad and Quetta	—·023	+·012	+·012	0
Lahore and Leh	—·005	+·055	+·006	+·019

TABLE 49—*concld.*

PAIR OF STATIONS.	DEPARTURE FROM NORMAL OF VERTICAL PRESSURE DIFFERENCES.			
	October.	November.	December.	Period, October to December.
	"	"	"	"
Peshawar and Murree	—·031	—·006	—·022	—·020
Ludhiana and Simla	0	+·021	+·007	+·009
Roorkee and Chakrata	—·007	+·008	—·004	—·001
Dhubri and Darjiling	+·039	+·020	+·030	+·030
Deesa and Mount Abu	+·005	+·008	—·015	—·001
Khandwa and Pachmarhi	—·002	+·006	0	+·001
Madura and Kodaikanal	+·022	+·039	+·025	+·029

The year.—The mean 8 hrs. pressure was almost equal to the average in March, August and November, and distinctly above the normal in January, April, May, September, October and December, the excess in April amounting to as much as ·053″. It was on the other hand in appreciable defect in February and June, and in considerable defect in July. The excess was thus on the whole more decided and prolonged than the opposite variation, and in consequence the yearly mean was ·009″ above the average.

As mean temperature of the year was only a third of a degree higher than usual, it is evident that the high density of the atmosphere was not due to this factor.

TABLE 50.

MONTH.	DEPARTURE FROM NORMAL OF	
	Pressure.	Mean temperature.
	"	°
January	+·030	+0·9
February	—·010	+2·1
March	+·006	—0·5
April	+·053	—0·7
May	+·023	+0·6
June	—·011	+2·5
July	—·025	+0·6
August	—·008	—0·1
September	+·012	—0·8
October	+·021	+0·1
November	—·005	—0·5
December	+·020	—0·7
Year	+·009	+0·3

The statement below shows that the high pressure conditions were not confined to India.

TABLE 51.

STATION.	Departure from normal of pressure.
	"
Mauritius	—·006
Seychelles	+·001
Zanzibar	+·009
Aden	+·022
Baghdad	0
Bushire	+·005
Jask	—·007
Muscat	+·011

The vertical distribution over northern and central India was on the whole very nearly normal in character. In southern India pressure was somewhat in defect at the level of Kodaikanal relatively to the plains.

TABLE 52.

PAIR OF STATIONS.	Departure from normal of vertical pressure differences.
	"
Jacobabad and Quetta	—·018
Lahore and Leh	+·002
Peshawar and Murree	—·017
Ludhiana and Simla	—·002
Roorkee and Chakrata	+·005
Dhubri and Darjiling	+·029
Deesa and Mount Abu	—·009
Khandwa and Pachmarhi	+·001
Madura and Kodaikanal	+·022

Storms of the year.

A large number of disturbances appeared over the Bay of Bengal but of these only six were of sufficient intensity to be classed as storms. In the Arabian Sea also weather was unsettled on several occasions, but according to the available marine information only two definite storms were recorded.

The statement below gives a very brief account of the storms of the year. Plate VI at the end of the Summary shows their tracks.

BAY OF BENGAL.

No.	Month.	Date.	Greatest observed barometric depression.	Character of storm.	Details of storm.
1	July	27th to 30th	·34″	Cyclonic storm of moderate intensity.	This storm was generated off the Orissa coast on the 26th; it crossed inland in the afternoon of the 28th and travelling rapidly along a line through False Point, Jubbulpore and Deesa, disappeared during the 30th in the vicinity of the coast between Karachi and Dwarka. It occasioned moderate to heavy rain along its track. The strongest recorded winds over the Bay during its existence were of force 9.
2	Augt.	1st to 5th	·2″	Ditto	This storm originated slowly over the northwest of the Bay on July 31st, crossed the Orissa coast near Puri on the morning of the 2nd and broke up in the neighbourhood of Sutna during the 5th. The strongest recorded winds due to it over the Bay were of force 9.
3	Sept.	5th to 7th	·28″	Cyclonic storm of moderate intensity.	This storm was apparently formed over the Sandheads during the 4th: it travelled rapidly through Chota Nagpur, the east of Central India and the west of the United Provinces, and was practically dissipated during the 7th in the Chakrata hills. The strongest recorded winds over the Bay caused by the storm were of force 9.
4	„	22nd to 27th	·15″	Cyclonic storm of feeble intensity.	This storm was developed off the north Madras coast during the 21st and crossed inland between Waltair and Cocanada on the 24th. It was central near Amraoti on the morning of the 25th, near Sangor on the 26th and near Agra on the 27th, and disappeared in the hills near Naini Tal during the next 24 hours. Although feeble barometrically, it gave very opportune rain to the Central Provinces, Central India and the United Provinces. The greatest recorded force of winds connected with it was 7.
5	Octr. to Nov.	28th to 2nd.	At least ·4″	Cyclonic storm of considerable intensity.	This storm appeared during the 27th October in the vicinity of the Nicobars and travelling by a curved path disappeared over Bengal on the 2nd November. The strongest winds actually recorded by ships in the Bay were of force 10.

BAY OF BENGAL—*concld.*

No.	Month.	Date.	Greatest observed barometric depression.	Character of storm.	Details of storm.
6	Decr.	17th and 18th.	At least ·25″	Cyclonic storm of moderate intensity.	This storm was formed to the south east of Ceylon during the 16th, advanced north westwards and on the morning of the 18th was central about 100 miles to the west by north of Colombo. On the 19th it was situate to the west of Malabar, but had become much reduced in intensity. It apparently disappeared on the 21st while moving westwards. Winds of force 8 were recorded on board the *Catalone* in the storm area.

ARABIAN SEA.

No.	Month.	Date.	Greatest observed barometric depression.	Character of storm.	Details of storm.
1	Octr.	25th to 30th.	·2″ (?)	Probably a storm of considerable intensity.	This was the development of a feeble depression which originally formed over the Bay on the 20th and travelling across the south of the Peninsula, entered the Arabian sea during the 24 hours preceding 8 hours of the 23rd. It advanced westwards until the 29th when its path changed to south west. By the morning of the 31st the disturbance had become diffuse. On most days there were no vessels near the centre of the storm, and it is therefore not possible to form an exact idea of its character. The strongest winds actually recorded did not exceed force 10.
2	Novr.	19th to 22nd.	·35″ (?)	Probably severe.	An extensive belt of low pressure lay on the 16th over the region between the Laccadives and the South Tenasserim coast. A small cyclonic vortex was developed within it on the 17th. Presumably it travelled westwards and by the morning of the 20th had reached a position in about Latitude 8½° N and Longitude 59°E. Here its progress was arrested owing to the formation on the 18th of a second cyclonic storm near and to the south-east of Ceylon, and during the next two days it was displaced slightly eastwards. The second storm apparently advanced along a northwesterly course and passing across the extreme south of the Peninsula passed out into the Arabian Sea near Cochin, probably on the evening of the 19th. On the morning of the 20th the centre was about 140 miles west-by-north of Calicut and in Latitude 16°N and Longitude 70°E at 8 hours of the 21st. Its path changed to north east during the day and on the morning of the 22nd the centre had reached a position within 50 miles almost due west of Bombay. It weakened rapidly after crossing about noon the coast between Surat and Bombay, but continued to move eastwards and on the morning of the 23rd was shown over the east of the Central Provinces as a shallow residual depression. On the 22nd when it was approaching Bombay the storm was probably a small concentrated disturbance with a calm central area, but there is no direct evidence for this. The strongest winds actually recorded on board vessels, none of which were, however, close to the centre, were only of force 9. It did considerable damage in the Bombay harbour, 5 lives and 27 small vessels being lost. The disturbance was noteworthy (*a*) for its rapidity of motion, (*b*) for striking the coast to the south of Gujarat, and (*c*) for the burst of rain which it gave to practically the whole of the Peninsula, the Central Provinces, Central India, the United Provinces and north east India.

No.	Month.	Date.	Greatest observed barometric depression.	Character of storm.	Details of storm.

Winds.

The mean direction of the wind and the mean diurnal movement of the air as measured by Robinson anemometers are given for all second class stations in Table A in each Monthly Weather Review. The normal values are also stated for the sake of ready comparison. The normal data of these elements, utilized in Table A of the Monthly Reviews of the year 1912, will be found in a collected form in Tables XXII, XXVI and XXVII of Volume XVII of Indian Meteorological Memoirs. The mean 8 hours wind directions for each month are laid down in the first chart in each Monthly Review. They are calculated in the usual manner by finding the resultant of equal winds in the directions actually observed at 8 hours and given in Table B, in each Monthly Review. As a general rule, the mean 8 hours wind directions vary little from the mean wind directions (calculated from the 10 and 16 hours wind data) in Table A of the Monthly Reviews, but in some cases and at certain seasons of the year they differ very considerably. The normal values used in Table B have been published in Volume XVII of the departmental Memoirs.

Hitherto the factor representing the ratio of air movement to travel of Beckley cups had in India, as in other countries, been taken as 3·0; but as in 1911 it had been generally accepted that the factor should be 2·2 the change to 2·2 was made in the Monthly Weather Review of January 1912 (see note on page 8 there).

The following is a summary of the more important features of the air movement over India for each period of the year 1912 :—

I.—The cold weather period.

The air movement during this period presented no marked unusual features.

II.—The hot weather period.

(*a*) Owing to the delay in the development of the hot weather characteristics the air movement was below the normal strength over the greater part of the country, but particularly in Bengal, Sind and Hyderabad.

(*b*) The direction of movement was less steady than usual in Burma, Bengal and Central India, and somewhat more persistent than is ordinarily the case in the Punjab, Sind and the United Provinces.

(*c*) The effects of the prolongation of the winter conditions were visible in April as far south as Port Blair and Colombo. Thus at the former station the usual westerly element in the mean wind direction for April was replaced by an easterly element and at Colombo calms were recorded on no less than twenty-nine days—indications that over the sea also the transition from the winter to the summer type of air circulation was occurring more slowly than usual.

(*d*) In the west equatorial belt as represented by Seychelles and Zanzibar the air movement during May was lighter than usual, and in the former locality the direction was variable during nearly the whole month.

(*e*) The information collected from ships crossing the equatorial belt during May also shows that the northward progress of the southeast trades was taking place unusually slowly. Thus the steamship *Surada* which crossed this region from south to north between the meridians of 61° and 66° E. in the beginning of the second week in May experienced light irregular airs and calms.

III.—The south-west monsoon period.

(*a*) On the average of the whole period the influx of air across the Indian coasts into the interior was weaker and more fitful than usual.

TABLE 53.

Division.	Departure from normal of period, June to September.	
	Hourly wind velocity.	Wind steadiness.
Burma	−0·8	−11
Assam	−0·2	+ 5
Bengal	−1·1	−11
Bihar and Orissa	0	0
United Provinces	−0·3	+ 6
Punjab	0	+ 1
North-West Frontier Province	−0·6	− 4
Sind	−1·7	−13
Rajputana	+0·4	− 7
Bombay	−1·1	− 3
Central India	−0·5	− 4
Central Provinces	+0·5	0
Hyderabad	−1·1	+ 1
Mysore	+0·1	+ 1
Madras	+0·5	0

(*b*) During June, August and September when the Bay current was weak very abnormal winds were recorded at Darjiling.

TABLE 54.

Station.	Mean wind direction.					
	June.		August.		September.	
	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.
Darjiling	N 72° W	S 76° E	W	N 88° E	S 75° W	S 89° E

The absence of the usual easterly winds at Darjiling would suggest that the Bay current was very shallow.

(*c*) In June when the monsoon conditions were in abeyance in the interior the mean direction of movement on the Malabar coast was east-south-east instead of from north or west which is normally the case. At Cherat, where the ordinary direction in June is S 79° E, there was an undue predominance of northerly winds due probably to unusual snowfall accumulations in the region to the north.

(*d*) In September, during which month the monsoon was very weak and fitful, westerly winds prevailed along the foot of the Himalayas from Ludhiana to Darbhanga in place of the usual easterly current, while in the north Konkan the opposite deflection was recorded.

(*e*) The delay in the establishment of the monsoon in the Indian area was associated with the prevalence of light variable winds in the west of the equatorial belt. According to the scanty information available the air movement was of about the normal character from the middle of the second week in July up to about the end of the third week in August when light unsteady winds re-appeared and proved to be the forerunners of the final retreat of the monsoon from north-west India in the beginning of September, about a fortnight before the normal date.

TABLE 55.

Date.	Hour.	Name of vessel.	Position.		Wind.	
			Lat.	Long.	Direction.	Force.
5th June	4 A.M.	*S. S. Umkloti*	...	...	S. S. W.	2
Ditto	8 A.M.	*Ditto*	1·48 S.	51·47	S.	2
Ditto	8 P.M.	*Ditto*	...	...	S.	2
Ditto	Midnight	*Ditto*	...	...	Var.	2
6th June	4 A.M.	*Ditto*	...	...	S.	2
Ditto	Noon	*Ditto*	1·09 N.	55·15	Var.	2
Ditto	4 P.M.	*Ditto*	...	...	Var.	2
Ditto	Midnight	*Ditto*	...	...	S.	2
7th June	4 A.M.	*Ditto*	...	...	E.	2
Ditto	8 A.M.	*Ditto*	3·18 N.	57·20	S.	2
Ditto	4 P.M.	*Ditto*	...	...	S. E.	1
Ditto	Midnight	*Ditto*	...	...	Var.	1
10th June	4 A.M.	*S. S. Shirala*	...	...	E.	4
Ditto	Noon	*Ditto*	10·31 S.	65·14	E. N. E.	6
Ditto	8 P.M.	*Ditto*	...	...	E. N. E.	4
Ditto	Midnight	*Ditto*	...	...	Var.	2
11th June	4 A.M.	*Ditto*	...	...	E. S. E.	4
Ditto	8 A.M.	*Ditto*	8·26 S.	66·56	E. N. E.	4
Ditto	4 P.M.	*Ditto*	...	...	E. N. E.	2
Ditto	Midnight	*Ditto*	...	...	E. N. E.	2
12th June	4 A.M.	*Ditto*	...	...	E. N. E.	2
Ditto	8 A.M.	*Ditto*	5·36 S.	69·21	E. N. E.	2
Ditto	8 P.M.	*Ditto*	...	...	E. N. E.	2
Ditto	Midnight	*Ditto*	...	...	E. N. E.	2
13th June	4 A.M.	*Ditto*	...	...	E.	2
Ditto	8 A.M.	*Ditto*	3·00 S.	71·45	E. N. E.	2
Ditto	Noon	*Ditto*	2·35 S.	72·09	S. E.	2
Ditto	4 P.M.	*Ditto*	...	...	E. by N.	2
Ditto	Midnight	*Ditto*	...	...	S. E.	2
14th June	4 A.M.	*Ditto*	...	...	E.	2
Ditto	8 A.M.	*Ditto*	0·10 S.	74·13	E.	2
Ditto	4 P.M.	*Ditto*	...	...	E.	2
Ditto	8 P.M.	*Ditto*	...	...	Var.	2
15th June	4 A.M.	*Ditto*	...	...	S. E.	2
Ditto	8 A.M.	*Ditto*	3·20 N.	76·49	S.	2
Ditto	Noon	*Ditto*	3·33 N.	77·15	Var.	2
Ditto	Midnight	*Ditto*	...	...	Var.	2

TABLE 55—*contd.*

Date.	Hour.	Name of vessel.	Position.		Wind.	
			Lat.	Long.	Direction.	Force.
2nd July	4 A.M.	*S. S. Ville De Oran*	...	...	E. S. E.	5
Ditto	8 A.M.	*Ditto*	6·00 S.	56·57	S. E.	4
Ditto	4 P.M.	*Ditto*	...	...	E. S. E.	2
Ditto	8 P.M.	*Ditto*	...	...	N. N. E.	2
Ditto	Midnight	*Ditto*	...	...	Calm.	0
3rd July	8 A.M.	*Ditto*	1·55 S.	60·14	E. N. E.	1
Ditto	Noon	*Ditto*	1·15 S.	60·38	W. N. W.	2
Ditto	8 P.M.	*Ditto*	...	...	Calm.	0
Ditto	Midnight	*Ditto*	...	...	W.	2
4th July	4 A.M.	*Ditto*	...	...	W.	2
Ditto	8 A.M.	*Ditto*	2·18 N.	61·50	W. S. W.	3
10th July	4 A.M.	*S. S. Minneric*	...	...	S.	3
Ditto	8 A.M.	*Ditto*	1·04 N.	64·54	S.	4
Ditto	8 P.M.	*Ditto*	...	...	Var.	2
Ditto	Midnight	*Ditto*	...	...	Var.	2
11th July	8 A.M.	*Ditto*	1·22 N.	69·11	Var.	2
Ditto	8 P.M.	*Ditto*	...	...	Var.	2
Ditto	Midnight	*Ditto*	...	...	Var.	1
12th July	4 A.M.	*Ditto*	...	...	Var.	1
Ditto	8 A.M.	*Ditto*	1·53 N.	73·21	N. W.	2
Ditto	Midnight	*Ditto*	...	...	N. W.	3
20th August	4 A.M.	*S. S. Katanga*	...	...	S. E.	3
Ditto	8 A.M.	*Ditto*	0·53 N.	67·24	S. E.	3
Ditto	4 P.M.	*Ditto*	...	...	Var.	1
Ditto	8 P.M.	*Ditto*	...	...	S. E.	1
21st August	4 A.M.	*Ditto*	...	...	S. E.	1
Ditto	8 A.M.	*Ditto*	0·59 N.	70·24	S. E.	1
Ditto	4 P.M.	*Ditto*	...	...	S.	1
22nd August	4 A.M.	*Ditto*	...	...	S.	1
Ditto	8 A.M.	*Ditto*	1·37 N.	73·10	Calm.	0
Ditto	Noon	*Ditto*	1·40 N.	73·39	Var.	1
Ditto	4 P.M.	*Ditto*	...	...	W. N. W.	1
30th August	4 A.M.	*S. S. Australind*	...	...	S.	2
Ditto	8 A.M.	*Ditto*	2·14 N.	56·29	S.	2
Ditto	Noon	*Ditto*	2·47 N.	56·57	Var.	1
Ditto	4 P.M.	*Ditto*	...	...	S. W.	1
31st August	4 A.M.	*Ditto*	...	...	S. W.	4
Ditto	Noon	*Ditto*	5·33 N	59·38	Var.	1
Ditto	4 P.M.	*Ditto*	...	...	Var.	1
Ditto	8 P.M.	*Ditto*	...	...	S. W.	2
Ditto	Midnight	*Ditto*	...	...	W.	3

IV.—The retreating south-west monsoon period.—The only noteworthy peculiarities of the air movement over the land area of India were, (*a*) its great steadiness in the United Provinces, the Punjab, the Central Provinces and Hyderabad, (*b*) its low velocity in Sind, Central India and Hyderabad and (*c*) the prevalence during the period of abnormal westerly or north-easterly winds in the greater part of the area comprising Hyderabad, the Madras Deccan and the Bombay Deccan.

Humidity.

The departure from normal of the mean monthly and annual aqueous vapour pressure and relative humidity for first and second class stations for the year 1912 are given in Tables 56 and 57. The normal values employed in the determination of the departures are given in Tables XXX and XXXIII of the Indian Meteorological Memoirs, Volume XVII. The two tables (Tables 58 and 59) give departure data of 8 hrs. aqueous vapour pressure and relative humidity for each month of the year and for the year for the fifteen chief political divisions.

TABLE 56.—*Departure of the monthly and annual mean vapour pressure data of 1912 from average of past years.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		"	"	"	"	"	"	"	"	"	"	"	"	"
Bengal	Calcutta	+·014	+·080	+·005	+·001	+·010	—·024	—·007	0	—·018	—·001	—·026	—·013	+·002
United Provinces of Agra and Oudh.	Allahabad	+·018	+·016	—·117	+·012	—·030	—·116	—·017	—·005	—·091	—·121	—·027	—·024	—·042
Punjab	Lahore	+·064	+·028	—·051	+·085	—·013	—·061	+·007	+·047	—·137	—·021	+·017	—·005	—·003
Rajputana	Jaipur	+·040	+·024	—·096	+·022	—·063	—·108	+·033	+·033	—·055	—·037	—·019	—·046	—·023
Bombay	Bombay	+·009	+·026	—·040	—·007	—·004	—·004	—·005	+·001	—·013	—·024	—·018	—·008	—·007
Mysore	Bangalore	—·048	+·053	—·013	—·041	0	+·007	+·013	+·007	+·026	+·029	—·015	—·023	0
Madras	Madras	—·001	+·077	+·047	+·020	+·071	+·063	+·056	+·043	+·061	+·042	+·012	—·046	+·037
Kashmir	Srinagar		+·036											
Hill Stations excluding Kashmir and Baluchistan.	Simla	+·005	—·008	—·069	+·005	—·029	—·076	—·003	—·017	—·077	—·015	—·011	—·023	—·027
	Katmandu	+·002	+·008	—·075	+·027	+·003	—·041	—·012	—·006	—·020	—·028	—·015	+·008	—·012
Extra India	Seychelles	+·004	+·001	—·028	+·017	—·011	+·023	—·005	—·021	—·008	—·021	—·091	—·027	—·014
	Mauritius	—·007	+·078	—·013	0	+·054	—·009	—·019	—·001	+·022	+·041	—·017	—·020	

TABLE 57.—*Departure of the monthly and annual mean relative humidity data of 1912 from the average of past year.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Bengal	Calcutta	— 4	+ 3	— 2	+ 2	0	— 3	0	— 1	— 5	— 3	— 5	— 2	— 2
United Provinces of Agra and Oudh.	Allahabad	+ 2	— 2	— 9	+ 1	— 4	—12	0	— 1	— 8	—10	— 8	— 2	— 4
Punjab	Lahore	+ 7	— 2	— 7	+11	— 8	— 8	— 2	+ 3	— 8	— 1	0	0	— 1
Rajputana	Jaipur	+ 4	0	—10	0	— 7	—16	— 2	+ 2	— 5	— 5	— 5	— 8	— 4
Bombay	Bombay	— 2	+ 2	— 3	— 4	— 2	— 3	— 1	— 1	— 5	— 4	— 1	— 2	— 2
Mysore	Bangalore	— 5	+ 4	— 2	— 4	— 5	+ 1	+ 3	+ 1	+ 1	+ 3	— 3	— 1	— 1
Madras	Madras	+ 1	+ 3	+ 1	0	+ 1	— 1	+ 2	+ 2	+ 1	0	+ 1	— 5	+ 1
Kashmir	Srinagar		— 4											
Hill Stations excluding Kashmir and Baluchistan.	Simla	+ 3	—10	— 5	+ 6	— 4	—13	— 1	+ 1	— 9	— 4	+ 3	— 5	— 3
	Katmandu	0	— 3	—11	+ 5	— 2	— 6	— 2	— 2	— 4	— 6	+ 1	+ 3	— 2
Extra India.	Seychelles	0	— 3	— 6	— 1	— 4	— 1	— 2	— 4	— 4	— 5	—10	— 5	— 4
	Mauritius	— 4	+ 7	— 3	0	+ 4	— 1	— 2	+ 4	+ 2	+ 6	+ 2	+ 1	+ 1

TABLE 58.—*Departure of the mean monthly aqueous vapour pressure from the normal in the fifteen chief political divisions of India in 1912.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	"	"	"	"	"	"	"	"	"	"	"	"	"
Burma	+·037	—·007	—·002	—·034	—·012	—·001	—·006	—·003	—·009	—·013	+·052	—·011	—·001
Assam	+·004	+·011	—·053	—·048	—·004	—·006	—·011	—·002	—·014	—·015	+·008	+·020	—·009
Bengal	+·009	+·050	—·036	—·041	—·008	—·012	—·007	+·006	0	—·016	—·025	—·005	—·007
Bihar and Orissa	+·021	+·052	—·027	+·009	+·021	—·032	—·007	+·001	—·024	—·036	—·018	—·016	—·005
United Provinces	+·043	+·022	—·069	+·044	—·040	—·079	+·001	—·002	—·067	—·009	—·013	—·014	—·015
Punjab	+·052	+·017	—·080	+·028	—·066	—·130	—·008	—·003	—·120	—·027	+·006	—·007	—·028
North-West Frontier Province	+·037	+·022	—·059	+·053	+·029	+·008	+·076	+·023	—·111	+·037	+·001	—·003	+·009
Sind	+·076	+·052	—·045	+·082	+·058	+·077	+·097	+·036	—·055	+·076	+·025	+·013	+·041
Rajputana	+·040	+·006	—·085	—·013	—·119	—·099	+·022	—·007	—·110	—·022	—·036	—·060	—·040
Bombay	+·007	+·026	—·041	+·017	+·002	—·014	+·015	+·024	—·024	—·003	—·011	—·027	—·002
Central India	+·024	+·043	—·025	—·050	—·072	—·091	+·003	+·015	—·065	—·020	—·010	—·007	—·021
Central Provinces	+·007	+·067	—·087	—·055	—·080	—·114	—·015	—·013	—·086	—·045	—·039	—·044	—·042
Hyderabad	—·063	+·090	+·006	—·044	—·023	—·036	—·008	—·009	—·039	—·032	—·061	—·049	—·022
Mysore	—·043	+·069	—·008	0	+·003	+·003	+·007	+·007	+·011	+·001	+·015	+·001	+·005
Madras	—·027	+·054	+·016	+·028	+·021	+·009	+·011	+·005	+·019	+·008	—·007	—·036	+·008
Mean of India	+·017	+·035	—·040	—·004	—·028	—·045	+·005	+·003	—·046	—·014	—·008	—·022	—·012

TABLE 59.—*Departure of the mean monthly and annual relative humidity from the normal in the fifteen chief political divisions of India in 1912.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma	+ 1	— 1	+ 1	— 1	— 3	0	0	+ 1	— 1	+ 2	+ 5	+ 2	+ 1
Assam	— 3	— 3	— 6	+ 5	— 2	— 2	— 1	— 3	— 4	— 1	0	— 1	— 2
Bengal	0	+ 2	— 2	+ 4	+ 1	— 2	— 1	— 1	— 2	0	— 1	+ 1	0
Bihar and Orissa	+ 3	+ 5	— 4	+ 7	+ 1	— 6	0	— 1	— 3	— 5	0	+ 1	0
United Provinces	+ 6	0	— 7	+ 6	— 3	—12	— 2	— 2	— 3	— 2	— 1	— 1	— 2
Punjab	+ 8	— 2	—12	+ 9	— 4	—13	— 2	+ 1	— 7	— 4	+ 3	— 1	— 2
North-West Frontier Province	+ 8	+ 1	— 7	+11	+ 4	— 1	+ 4	+ 5	— 4	+ 8	+ 4	— 4	+ 2
Sind	+ 6	— 2	— 8	+ 5	0	+ 1	+ 2	0	— 4	+ 7	+ 5	+ 1	+ 1
Rajputana	+ 7	— 3	—11	+ 1	—10	— 9	+ 3	+ 4	— 6	— 1	— 1	— 9	— 3
Bombay	— 1	+ 2	— 3	0	— 1	— 3	+ 2	+ 3	— 3	— 1	0	— 3	— 1
Central India	+ 3	+ 2	— 3	— 3	— 6	—14	0	+ 1	— 2	0	+ 3	+ 6	— 1
Central Provinces	0	+ 7	—11	— 5	— 7	—19	— 2	— 1	— 7	— 7	— 4	— 2	— 5
Hyderabad	— 9	+ 7	— 5	— 5	— 5	—11	+ 2	+ 1	— 7	— 5	— 5	— 3	— 4
Mysore	— 8	+ 8	— 1	— 3	— 2	— 1	+ 2	+ 3	+ 2	+ 2	+ 4	+ 7	+ 1
Madras	— 1	+ 1	— 1	0	0	— 2	+ 1	+ 1	0	+ 2	+ 1	+ 1	0
Mean of India	+ 2	+ 1	— 5	+ 2	— 3	— 7	0	+ 1	— 4	— 1	+ 1	— 1	— 1

I.—The cold weather period.—In the plains the amount of vapour in the air was on the mean of the period more or less in excess, while the percentage of saturation was very nearly normal.

TABLE 60.

DIVISION.	DEPARTURE OF MEAN 8 HRS. VAPOUR PRESSURE FROM NORMAL.			DEPARTURE OF MEAN 8 HRS. RELATIVE HUMIDITY FROM NORMAL.		
	January.	February.	Period, January and February.	January.	February.	Period, January and February.
	"	"	"			
Burma . .	+·037	−·007	+·015	+ 1	− 1	0
Assam . .	+·004	+·011	+·007	− 3	− 3	− 3
Bengal . .	+·009	+·050	+·029	0	+ 2	+ 1
Bihar and Orissa	+·021	+·052	+·037	+ 3	+ 5	+ 4
United Provinces	+·043	+·022	+·033	+ 6	0	+ 3
Punjab . .	+·052	+·017	+·035	+ 8	− 2	+ 3
North-West Frontier Province.	+·037	+·022	+·029	+ 8	+ 1	+ 5
Sind . .	+·076	+·052	+·064	+ 6	− 2	+ 2
Rajputana .	+·040	+·006	+·023	+ 7	− 3	+ 2
Bombay . .	+·007	+·026	+·017	− 1	+ 2	+ 1
Central India .	+·024	+·043	+·033	+ 3	+ 2	+ 3
Central Provinces	+·067	+·067	+·067	0	+ 7	+ 3
Hyderabad .	−·063	+·090	+·013	− 9	+ 7	− 1
Mysore . .	−·043	+·062	+·013	− 8	+ 8	0
Madras . .	−·027	+·054	+·013	− 1	+ 1	0

A reference to the corresponding abnormalities of rainfall will show that in eight of the above divisions the seasonal rainfall was short of the normal.

Over the greater part of the mountain zone bordering India on the north and west as well as in Persia the conditions were variable—an indication that they were determined by local rather than general actions.

TABLE 61.

STATION.	DEPARTURE OF MEAN 8 HRS. VAPOUR PRESSURE FROM NORMAL.			DEPARTURE OF MEAN 8 HRS. RELATIVE HUMIDITY FROM NORMAL.		
	January.	February.	Period, January and February.	January.	February.	Period, January and February.
	"	"	"			
Aden . .	+·035	+·005	+·021	+ 4	+ 2	+ 3
Baghdad . .	−·026	+·016	−·005	0	+ 2	+ 1
Bushire . .	+·016	+·028	+·022	+ 9	+ 9	+ 9
Tehran . .	+·017	−·002	+·007	+17	+ 3	+10
Ispahan . .	−·023	−·054	−·039	+ 2	−14	− 6
Jask . .	−·027	−·009	−·018	− 2	+ 5	+ 1
Muscat . .	+·008	+·007	+·007	+ 1	+ 2	+ 1
Chaman . .	+·051	+·021	+·036	+14	− 3	+ 5
Quetta . .	+·020	−·011	+·005	− 1	−11	− 6
Cherat . .	+·001	−·025	−·012	0	−17	− 9
Murree . .	+·017	+·002	+·009	+ 8	−11	− 1
Gilgit . .	+·002	−·010	−·004	+ 5	− 8	− 1
Srinagar . .	+·025	+·022	+·023	− 2	− 2	− 2
Skardu . .	...	...	...	−18	−11	−15
Dras . .	...	...	...	+ 1	+ 2	+ 1
Simla . .	+·027	−·017	+·005	+ 6	−14	− 4
Leh . . .	+·018	+·022	+·020	+14	+18	+16
Chakrata . .	+·018	+·008	+·013	+ 3	− 8	− 3
Mukteswar .	...	...	...	+ 5	−12	− 3
Darjiling . .	+·005	+·014	+·009	− 5	− 3	− 4
Maymyo . .	...	...	...	+ 7	+ 5	+ 6
Pachmarhi .	+·040	+·080	+·060	+11	+14	+13
Mount Abu .	+·023	+·006	+·015	+ 2	− 2	0
Kodaikanal .	...	...	...	−26	+ 4	−11

II.—The hot weather period.—Except in Rajputana and the Central Provinces where the air was drier than usual, both absolutely and relatively, the hygrometric conditions of the period in the plains of India, differed to no important extent from the normal.

TABLE 62.

Division.	Departure of mean 8 hrs. vapour pressure from normal.				Departure of mean 8 hrs. relative humidity from normal.			
	March.	April.	May.	Period, March to May.	March.	April.	May.	Period, March to May.
	"	"	"	"				
Burma	—·002	—·034	—·012	—·016	+ 1	— 1	— 3	— 1
Assam	—·053	—·048	—·004	—·035	— 6	+ 5	— 2	— 1
Bengal	—·036	—·041	—·008	—·028	— 2	+ 4	+ 1	+ 1
Bihar and Orissa	—·027	+ ·009	+ ·021	+ ·001	— 4	+ 7	+ 4	+ 2
United Provinces	—·069	+ ·044	—·040	—·022	— 7	+ 6	— 3	— 1
Punjab	—·080	+ ·028	—·066	—·039	—12	+ 9	— 4	— 2
North-West Frontier Province	—·059	+ ·053	+ ·029	+ ·008	— 7	+11	+ 4	+ 3
Sind	—·045	+ ·082	+ ·058	+ ·032	— 8	+ 5	0	— 1
Rajputana	—·085	—·013	—·118	—·072	—11	+ 1	—10	— 7
Bombay	—·041	+ ·017	+ ·002	—·007	— 3	0	— 1	— 1
Central India	—·025	—·050	—·072	—·049	— 3	— 3	— 6	— 4
Central Provinces	—·087	—·055	—·080	—·074	—11	— 5	— 7	— 8
Hyderabad	+ ·006	—·044	—·023	—·020	— 5	— 5	— 5	— 5
Mysore	—·008	0	+ ·003	—·002	— 1	— 3	— 2	— 2
Madras	+ ·016	+ ·028	+ ·021	+ ·022	— 1	0	0	0

In most divisions the departures were related to the character of the precipitation.

In the Himalayas as well as in the highlands to the west of the Indus the distribution of humidity was characterized by much irregularity.

TABLE 63.

STATION.	DEPARTURE OF MEAN 8 HRS. VAPOUR PRESSURE FROM NORMAL.				DEPARTURE OF MEAN 8 HRS. RELATIVE HUMIDITY FROM NORMAL.			
	March.	April.	May.	Period, March to May.	March.	April.	May.	Period, March to May.
	in.	in.	in.	in.				
Aden	—·002	+·052	—·021	+·010	0	+ 5	0	+ 2
Baghdad	—·029	—·024	—·111	—·055	— 2	— 6	—12	— 7
Bushire	+·045	+·111	+·057	+·071	+11	+17	+ 9	+12
Tehran	—·007	+·016	+·009	+·006	+ 6	+ 9	+ 7	+ 7
Ispahan	—·056	—·099	—·161	—·105	—12	—13	—23	—16
Jask	—·099	—·074	—·115	—·096	— 8	+ 4	— 1	— 2
Muscat	—·029	—·034	—·199	—·087	— 6	+ 2	—18	— 7
Chaman	—·048	+·033	+·034	+·006	— 9	— 4	+ 5	— 3
Quetta	—·061	+·004	—·040	—·032	—19	+ 2	— 5	— 7
Cherat	—·079	+·015	+·003	—·020	—19	+10	+ 4	— 2
Murree	—·012	—·026	+·060	+·007	— 3	— 1	+11	+ 2
Gilgit	—·035	—·006	+·037	—·001	— 6	— 3	+13	+ 1
Srinagar	—·028	—·010	—·043	—·027	— 4	— 1	0	— 2
Skardu	...	...	...	...	—19	—14	— 4	—12
Dras	...	...	...	...	— 1	— 5	— 9	— 5
Simla	—·028	+·024	—·019	—·008	— 3	+10	— 3	0
Leh	+·015	+·029	+·003	+·016	+12	+ 7	— 1	+ 6
Chakrata	+·002	+·041	+·028	+·024	+ 4	+13	+ 4	+ 7
Mukteswar	...	...	...	...	— 6	+ 7	+ 1	+ 1
Darjiling	—·033	—·008	—·014	—·018	—12	+10	— 3	— 2
Maymyo	...	...	...	...	+ 4	+ 7	+ 3	+ 5
Pachmarhi	—·030	+·001	—·050	—·026	0	+ 2	— 7	— 2
Mount Abu	—·038	+·048	—·065	—·018	— 5	+ 7	—12	— 3
Kodaikanal	...	...	...	...	+ 8	+ 2	+ 3	+ 4

III.—The south-west monsoon period.—Over northern and central India and in the Deccan the deviations from normal of the hygrometric conditions were in fair accord with the abnormal features of rainfall. Thus humidity, both absolute and relative, was apparently in defect in most parts of these areas in June and September when the monsoon currents were very weak, and about the average in the two intervening months both of which were characterized by the prevalence of strongly marked monsoon conditions.

In the rest of the country humidity departed but little from the normal according to either estimation.

TABLE 64.

Division.	Departure of mean 8 hrs. vapour pressure from normal.					Departure of mean 8 hrs. relative humidity from normal.				
	June.	July.	August.	September.	Period, June to September.	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"					
Burma	—·001	—·006	—·003	—·009	—·005	0	0	+ 1	— 1	0
Assam	—·006	—·011	—·002	—·014	—·008	— 2	— 1	— 3	— 4	— 3
Bengal	—·012	—·007	+·006	0	—·003	— 2	— 1	— 1	— 2	— 1
Bihar and Orissa	—·032	—·007	+·001	—·024	—·015	— 6	0	— 1	— 3	— 3
United Provinces	—·079	+·001	—·002	—·067	—·037	—12	— 2	— 2	— 3	— 5
Punjab	—·130	—·008	—·003	—·120	—·065	—13	— 2	+ 1	— 7	— 5
North-West Frontier Province	+·008	+·076	+·023	—·111	—·001	— 1	+ 4	+ 5	— 4	+ 1
Sind	+·077	+·097	+·036	—·055	+·039	+ 1	+ 2	0	— 4	0
Rajputana	—·099	+·022	—·007	—·110	—·049	— 9	+ 3	+ 4	— 6	— 2
Bombay	—·014	+·015	+·024	—·024	0	— 3	+ 2	+ 3	— 3	0
Central India	—·091	+·003	+·015	—·065	—·035	—14	0	+ 1	— 2	— 4
Central Provinces	—·114	—·015	—·013	—·086	—·057	—19	— 2	— 1	— 7	— 7
Hyderabad	—·036	—·003	—·009	—·039	—·023	—11	+ 2	+ 1	— 7	— 4
Mysore	+·003	+·007	+·007	+·011	+·007	— 1	+ 2	+ 3	+ 2	+ 1
Madras	+·009	+·011	+·005	+·019	+·011	— 2	+ 1	+ 1	0	0

In the Himalayas, the Satpuras and the Aravalis the departures from the normal were of the same general character as in the neighbouring plains. In Baluchistan, unlike Sind, the air was on the whole drier than usual, both absolutely and relatively.

TABLE 65.

STATION.	DEPARTURE OF MEAN 8 HRS. VAPOUR PRESSURE FROM NORMAL.					DEPARTURE OF MEAN 8 HRS. RELATIVE HUMIDITY FROM NORMAL.				
	June.	July.	August.	September.	Period, June to September.	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"					
Aden	+·016	−·029	−·013	−·045	−·018	− 1	− 1	+ 1	+ 1	0
Baghdad	+·052	−·129	−·191	−·094	−·091	+ 2	− 7	−10	− 8	− 6
Bushire	+·192	+·071	+·012	+·154	+·107	+12	+12	+10	+18	+13
Tehran	+·056	+·046	−·021	−·039	+·011	+ 8	+ 5	0	0	+ 3
Ispahan	−·110	−·086	−·062	−·068	−·081	−10	− 7	− 6	− 2	− 6
Jask	−·078	+·018	−·066	−·192	−·079	+ 4	+ 7	+ 2	− 5	+ 2
Muscat	−·071	−·039	−·043	−·130	−·071	−13	− 5	+ 6	−12	− 9
Chaman	−·002	−·035	+·001	−·056	−·023	+ 1	− 5	+ 3	+ 7	+ 1
Quetta	−·140	+·056	−·025	−·181	−·073	−15	+ 2	− 5	−22	−10
Chérat	−·070	+·002	+·080	−·188	−·044	− 9	+ 2	+ 9	−24	− 5
Murree	+·036	−·028	+·019	−·103	−·019	+ 1	− 5	+ 3	−15	− 3
Gilgit	+·059	−·016	−·043	−·086	−·021	+20	− 6	0	− 5	+ 2
Srinagar	−·074	+·010	−·052	−·089	−·051	− 1	− 6	− 6	− 8	− 5
Skardu	...	...	...	...	...	− 6	−12	−12	−20	−13
Dras	...	...	...	...	...	− 7	− 4	+ 3	− 3	− 3
Simla	−·066	+·017	+·004	−·038	−·021	−15	+ 2	+ 1	− 5	− 4
Leh	−·005	+·004	+·002	−·028	−·007	+ 3	− 6	− 2	− 9	− 3
Chakrata	−·057	−·001	+·014	−·026	−·017	−18	− 1	+ 1	− 4	− 4
Mukteswar	...	...	...	...	...	0	+ 3	0	− 1	+ 1
Darjiling	−·006	+·001	+·002	+·007	+·001	− 2	0	0	0	− 1
Maymyo	...	...	...	...	...	+ 6	+ 5	+ 3	+ 3	+ 4
Pachmarhi	−·115	+·012	+·024	−·047	−·031	−23	+ 1	+ 3	− 2	− 5
Mount Abu	−·018	+·043	+·030	−·058	−·001	− 9	0	0	− 6	− 4
Kodaikanal	...	...	...	...	...	+ 4	− 3	+ 2	− 1	+ 1

IV.—The retreating south-west monsoon period.—Throughout the period both vapour pressure and the percentage of saturation were inclined to be low in Rajputana, the Central Provinces and Hyderabad, and to be high in Sind, but in the rest of the country the deviations from normal of humidity were hardly of any significance.

TABLE 66.

Division.	Departure of mean 8 hrs. vapour pressure from normal.				Departure of mean 8 hrs. relative humidity from normal.			
	October.	November.	December.	Period, October to December.	October.	November.	December.	Period, October to December.
	"	"	"	"				
Burma	—·013	+·052	—·011	+·009	+ 2	+ 5	+ 2	+ 3
Assam	—·015	+·008	+·020	+·004	— 1	0	— 1	— 1
Bengal	—·016	—·025	—·005	—·015	0	— 1	+ 1	0
Bihar and Orissa	—·036	—·018	—·016	—·023	— 5	0	+ 1	— 1
United Provinces	—·009	—·013	—·014	—·012	— 2	— 1	— 1	— 1
Punjab	—·027	+·006	—·007	—·009	— 4	+ 3	— 1	— 1
North-West Frontier Province	+·037	+·001	—·003	+·012	+ 3	+ 4	— 4	+ 3
Sind	+·076	+·025	+·013	+·038	+ 7	+ 5	+ 1	+ 4
Rajputana	—·022	—·036	—·060	—·039	— 1	— 1	— 9	— 4
Bombay	—·003	—·011	—·027	—·014	— 1	0	— 3	— 1
Central India	—·020	—·010	—·007	—·012	0	+ 3	+ 6	+ 3
Central Provinces	—·045	—·039	—·044	—·043	— 7	— 4	— 2	— 4
Hyderabad	—·032	—·061	—·049	—·047	— 5	— 5	— 3	— 4
Mysore	+·001	+·015	+·001	+·006	+ 2	+ 4	+ 7	+ 4
Madras	+·008	—·007	—·036	—·012	+ 2	+ 1	+ 1	+ 1

Over the highlands of Persia and Baluchistan the absolute humidity was generally in defect, but in virtue of the prevailing low temperature the percentage of saturation was somewhat higher than usual. In Kashmir the vapour tension was about the average and the relative humidity in defect. In the Himalayas, the Satpuras and the Aravalis humidity differed but little from the normal, according to either estimation.

TABLE 67.

STATION.	DEPARTURE OF MEAN 8 HRS. VAPOUR PRESSURE FROM NORMAL.				DEPARTURE OF MEAN 8 HRS. RELATIVE HUMIDITY FROM NORMAL.			
	October.	November.	December.	Period, October to December.	October.	November.	December.	Period, October to December.
	"	"	"	"				
Aden	+·005	—·057	+·006	—·015	+ 1	— 6	+ 1	— 1
Baghdad	—·014	—·057	—·043	—·038	+ 1	— 7	— 2	— 3
Bushire	+·113	—·008	—·006	+·035	+15	+ 6	+ 8	+10
Tehran	+·018	—·040	—·001	—·008	+ 2	— 2	+15	+ 5
Ispahan	—·024	—·062	—·031	—·039	— 5	— 5	+ 3	— 2
Jask	—·100	—·109	—·023	—·077	+ 5	— 4	+ 5	+ 2
Muscat	—·091	—·097	—·035	—·081	—10	— 7	— 2	— 6
Chaman	+·007	—·071	0	—·021	+ 6	+16	+10	+11
Quetta	—·039	—·036	+·008	—·022	— 8	+19	+ 8	+ 6
Cherat	—·004	—·009	—·015	—·009	0	0	— 2	— 1
Murree	+·015	+·021	—·008	+·009	+ 4	+13	— 2	+ 4
Gilgit	+·046	—·056	—·031	—·014	+10	—14	—12	— 5
Srinagar	—·025	—·027	—·018	—·023	—10	—10	—10	—10
Skardu	...	...	...	...	—16	— 7	— 6	—10
Dras	...	...	...	...	0	— 3	...	...
Simla	0	+·007	—·008	0	— 3	+ 6	— 4	0
Leh	—·019	—·021	—·005	—·015	—12	—13	— 4	—10
Chakrata	+·027	—·015	0	+·004	+ 7	+ 2	0	+ 3
Mukteswar	...	...	...	...	— 1	+ 3	— 1	0
Darjiling	—·016	—·006	+·019	—·001	— 9	0	+ 5	— 1
Maymyo	...	...	...	...	+ 6	+ 8	+ 8	+ 7
Pachmarhi	0	—·003	—·027	—·010	+ 1	+ 6	+ 1	+ 3
Mount Abu	+·011	—·032	—·026	—·016	+ 2	— 2	— 7	— 2
Kodaikanal	...	...	...	...	+ 3	+ 5	—26	— 6

The Year—1912, like the previous year, was drier than usual, both in point of absolute humidity and the percentage of saturation. January, February, July and August were the only months in which the proportion of the vapour constituent exceeded the normal, and in February alone was the excess at all marked. On the other hand the air was considerably drier than usual in March, May, June and September.

The statement below illustrates the relationship of the anomalies of humidity with those of rainfall and temperature.

TABLE 68.

	Departure from normal of the Indian area.												
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Vapour pressure at 8 hrs.	+·017	+·035	—·040	—·004	—·028	—·045	+·005	+·003	—·046	—·014	—·008	—·022	—·012
Relative humidity at 8 hrs.	+2	+1	—5	+2	—3	—7	0	+1	—4	—1	+1	—1	—1
Rainfall (percentage departure)	+7	+17	—2	+19	—11	—28	+14	+7	—28	—5	+113	—79	—3
Mean temperature	+0·9	+2·1	—0·5	—0·7	+0·6	+2·5	+0·6	—0·1	—0·3	+0·1	—0·5	—0·7	+0·3

Cloud.

Normal values of the mean monthly and annual amount of cloud at first and second class stations have been obtained from the whole of the available data up to the end of the year 1899 given in Tables XXXV and XXXVI of the Indian Meteorological Memoirs, Volume XVII. These means are the arithmetical averages of the cloud amounts as registered at 10 and 16 hrs., and hence represent the mean amount during the day period rather than of the whole 24 hours.

Departure data of this element of meteorological observation for first and second class stations for the year 1912 are given in Table 69. Table 70 gives the departures of the 8 hrs. cloud for the fifteen chief political provinces of India.

TABLE 69.—*Departure of the monthly and annual mean cloud proportion of 1912 from the average of past years.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Bengal	Calcutta	+0·4	+0·3	0	+1·1	+0·6	—1·0	+0·1	0	—1·0	—0·2	—0·2	—1·1	0
United Provinces of Agra and Oudh.	Allahabad	+1·3	—1·1	—1·0	+0·6	+0·3	—2·9	+0·4	—0·4	+0·8	—1·2	+0·7	+0·6	—0·4
Punjab	Lahore	+1·2	—2·3	—0·8	+0·7	—0·2	—1·5	—0·6	—0·7	—1·0	—0·5	—0·6	+0·5	—0·5
Rajputana	Jaipur	+0·9	—1·4	—0·6	+1·3	—0·4	—2·0	—0·3	—0·1	+0·2	—0·2	+0·3	0	—0·1
Bombay	Bombay	+1·5	+0·4	—0·2	+0·7	+0·7	—1·1	—0·1	+0·1	—1·8	+1·2	+0·1	—0·3	+0·1
Mysore	Bangalore	...	...	...	...	...	...	...	...	...	...	...	...	...
Madras	Madras	—1·6	—0·4	—0·8	—1·3	—1·2	—2·2	+0·1	—0·2	—1·3	—0·3	—0·4	—1·5	—0·9
Kashmir	Srinagar	...	—1·6	...	...	...	...	...	...	...	...	...	...	...
Hill Stations excluding Kashmir and Baluchistan.	Simla	+1·5	—1·9	—0·1	+1·5	0	—1·6	—0·5	—0·2	—1·9	—0·5	+0·4	+0·3	—0·3
	Katmandu	+0·9	—1·0	—0·2	+1·7	—0·2	—0·6	+1·1	0	—0·9	—1·5	+0·1	+0·3	0
Extra India	Seychelles	+0·3	—0·5	—1·5	+1·0	+0·4	—1·2	+0·5	—0·3	+0·3	—1·1	—1·5	—0·5	—0·3
	Mauritius	+0·5	+2·6	—0·7	+0·1	+0·3	+0·3	+0·1	+0·3	+0·9	+2·0	—0·5	+0·3	+0·6

TABLE 70.—*Departure of the mean monthly and annual cloud amount from normal in the fifteen chief political divisions of India in 1912.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma	+1·8	—0·1	+0·9	+0·3	—0·9	—0·2	+0·1	0	—0·4	+0·9	+1·0	+0·3	+0·3
Assam	—1·1	0	—1·7	+0·8	—2·0	—1·4	—1·3	—2·0	—2·3	—1·0	+0·6	—0·2	—1·0
Bengal	+0·9	+0·9	0	+1·0	+0·1	—0·9	—0·3	—0·4	—1·6	—0·1	+0·8	—0·4	0
Bihar and Orissa	+0·7	+0·2	—0·5	+0·8	—0·4	—1·0	—0·1	—0·5	—1·4	—0·7	+0·3	—0·7	—0·3
United Provinces	+1·1	—1·4	—0·7	+0·6	0	—2·5	—0·3	—0·9	—0·9	—0·9	+0·5	—0·3	—0·5
Punjab	+1·3	—1·9	—0·6	+0·9	+0·4	—0·7	+0·2	—0·5	—0·7	—0·3	—0·6	+0·2	—0·2
North-West Frontier Province	+0·6	—1·3	—1·0	+1·3	+0·9	+0·3	+1·0	—0·4	—0·3	+0·2	—1·0	+1·3	+0·1
Sind	+0·2	—1·7	—0·9	+1·2	—0·9	—1·1	—0·3	—0·8	—1·2	—0·1	—0·9	+0·2	—0·5
Rajputana	+1·3	—1·4	—0·9	+0·7	—0·5	—2·0	—0·4	0	—0·5	+0·1	—0·3	—0·2	—0·3
Bombay	+1·0	+0·4	—0·4	+0·3	—0·7	—1·0	0	+0·2	—1·9	+0·4	+0·5	—0·1	—0·1
Central India	+1·7	+0·2	—0·4	+2·4	+1·2	—0·2	+0·8	+0·6	—0·7	—0·1	+0·8	0	+0·5
Central Provinces	+0·6	+0·7	—1·3	+0·5	—0·2	—2·5	+0·2	—0·1	—1·2	—0·3	+0·5	—0·4	—0·3
Hyderabad	—0·1	+1·2	—0·8	—0·2	—1·1	—2·2	+0·6	—0·8	—2·1	—0·3	—0·1	—0·5	—0·5
Mysore	—0·3	+1·1	—0·2	—1·3	0	—0·3	+0·1	+0·4	—0·1	+0·6	+0·5	+0·3	+0·1
Madras	+0·2	+0·9	0	+0·1	—0·2	—0·6	+0·3	+0·1	—0·3	+0·1	+0·4	—0·2	0
Mean of India	+0·8	—0·1	—0·5	+0·6	—0·3	—1·2	0	—0·3	—1·1	—0·1	+0·3	—0·1	—0·2

I.—The cold weather period.—(*a*) On the mean of the period the cloud proportion was high in Burma, Bengal, Bihar and Orissa, Central India, the Central Provinces and the whole of the Peninsula, and low in Assam and Sind, but in the remaining provinces the skies were clouded to about the customary extent.

TABLE 71.

DIVISION.	DEPARTURE OF MEAN 8 HOURS CLOUD AMOUNT FROM NORMAL.		
	January.	February.	Period, January and February.
Burma	+1·8	—0·1	+0·9
Assam	—1·1	0	—0·5
Bengal	+0·9	+0·9	+0·9
Bihar and Orissa	+0·7	+0·2	+0·5
United Provinces	+1·1	—1·4	—0·1
Punjab	+1·3	—1·9	—0·3
North-West Frontier Province	+0·6	—1·3	—0·3
Sind	+0·2	—1·7	—0·7
Rajputana	+1·3	—1·4	—0·1
Bombay	+1·0	+0·4	+0·7
Central India	+1·7	+0·2	+0·9
Central Provinces	+0·6	+0·7	+0·7
Hyderabad	—0·1	+1·2	+0·5
Mysore	—0·3	+1·1	+0·4
Madras	+0·2	+0·9	+0·5

In the case of most divisions these departures were independent of those of humidity and precipitation.

(*b*) In Persia, Baluchistan, the western Himalayas and Kashgaria skies were unusually cloudy in January, and abnormally clear in February.

TABLE 72.

STATION.	DEPARTURE OF MEAN 8 HOURS CLOUD AMOUNT FROM NORMAL.		
	January.	February.	Period, January and February.
Aden	−0·2	+0·4	+0·1
Baghdad	+0·6	−0·2	+0·2
Bushire	+1·0	...	...
Tehran	−0·7	−1·2	−0·9
Ispahan	+1·0	−1·1	−0·1
Jask	+1·6	−1·1	+0·3
Muscat	+2·2	+0·5	+1·3
Meshed	−0·3	+0·9	+0·3
Chaman	+1·7	−1·3	+0·2
Quetta	+2·0	−2·0	0
Cherat	+0·8	−0·2	+0·3
Murree	+1·3	−0·9	+0·2
Gilgit	−0·1	−1·2	−0·7
Kashgar	+0·7	−1·2	−0·3
Srinagar	+0·7	−1·3	−0·3
Simla	+1·8	−1·1	+0·3
Leh	+0·7	−0·2	+0·3
Chakrata	+1·4	−1·2	+0·1
Darjiling	+0·6	+1·5	+1·1
Pachmarhi	−1·1	−0·9	−1·0
Mount Abu	+1·4	−1·0	+0·2

II.—The hot weather period.—On the average of the whole period the quantity of cloud was appreciably less than usual in Assam, and in decided excess in Central India, but elsewhere the state of the skies was very nearly normal.

TABLE 73.

DIVISION.	DEPARTURE OF MEAN 8 HRS. CLOUD AMOUNT FROM NORMAL.			
	March.	April.	May.	Period, March to May.
Burma	+0·9	+0·3	−0·9	+0·1
Assam	−1·7	+0·3	−2·0	−1·0
Bengal	0	+1·0	+0·1	+0·4
Bihar and Orissa	−0·5	+0·8	−0·4	0
United Provinces	−0·7	+0·6	0	0
Punjab	−0·6	+0·9	+0·4	+0·2
North-West Frontier Province	−1·0	+1·3	+0·9	+0·4
Sind	−0·9	+1·2	−0·9	−0·2
Rajputana	−0·9	+0·7	−0·5	−0·2
Bombay	−0·4	+0·3	−0·7	−0·3
Central India	−0·4	+2·4	+1·2	+1·1
Central Provinces	−1·3	+0·5	−0·2	−0·3
Hyderabad	−0·8	−0·2	−1·1	−0·7
Mysore	−0·2	−1·3	0	−0·5
Madras	0	+0·1	−0·2	0

Below are given the corresponding departures in Persia, Arabia and the hill districts of northern and central India.

TABLE 74.

STATION.	DEPARTURE OF MEAN 8 HRS. CLOUD AMOUNT FROM NORMAL.			
	March.	April.	May.	Period, March to May.
Aden	−1·8	+2·0	0	+0·2
Baghdad	+0·4	−0·4	+0·9	+0·3
Bushire	+0·6	+0·3	−0·9	+0·1
Tehran	−1·6	−1·3	−1·7	−1·5
Ispahan	−1·1	−0·7	−0·2	−0·7
Jask	−0·4	+1·6	−0·7	+0·2
Muscat	0	+3·5	−0·4	+1·0
Meshed	−1·6	+1·3	+1·9	+0·5
Chaman	−0·9	+2·0	+0·1	+0·4
Quetta	−0·7	+0·3	0	−0·1
Cherat	−1·0	+2·4	+1·9	+1·1

TABLE 74—*concld.*

STATION.	DEPARTURE OF MEAN 8 HRS. CLOUD AMOUNT FROM NORMAL.			
	March.	April.	May.	Period, March to May.
Murree	−0·2	+0·4	+0·4	+0·2
Gilgit	−0·5	−0·9	−0·3	−0·6
Srinagar	−0·2	+1·0	+1·4	+0·7
Simla	−0·3	+1·4	−0·3	+0·1
Leh	−1·6	−0·3	+0·5	−0·5
Chakrata	−0·1	+1·4	0	+0·4
Darjiling	−1·1	+2·8	+0·1	+0·6
Pachmarhi	−2·1	−1·3	−0·7	−1·4
Mount Abu	−0·3	+1·2	−0·3	+0·2

These data are interesting as showing that the effects of the disturbances of the cold weather class which advanced into India during the hot season were more marked along the shores of the Persian Gulf and in Baluchistan, north-east Persia and the western Himalayas than in central and north Persia.

III.—The south-west monsoon period.—(*a*) There was less cloud than usual in north-east India, the United Provinces, Sind, Rajputana, Bombay, the Central Provinces and Hyderabad, the defect in the first three areas persisting throughout the season. Elsewhere the amount of cloud recorded during the period as a whole differed but little from the normal.

TABLE 75.

DIVISION.	DEPARTURE OF MEAN 8 HRS. CLOUD AMOUNT FROM NORMAL.				
	June.	July.	August.	September.	Period, June to September.
Burma	−0·2	+0·1	0	−0·4	−0·1
Assam	−1·4	−1·3	−2·0	−2·3	−1·7
Bengal	−0·9	−0·3	−0·4	−1·6	−0·8
Bihar and Orissa	−1·0	−0·1	−0·5	−1·4	−0·7
United Provinces	−2·5	−0·3	−0·9	−0·9	−1·1
Punjab	−0·7	+0·2	−0·5	−0·7	−0·4
North-West Frontier Province.	+0·3	+1·0	−0·4	−0·3	+0·1
Sind	−1·1	−0·3	−0·8	−1·2	−0·9
Rajputana	−2·0	−0·4	0	−0·5	−0·7
Bombay	−1·0	0	+0·2	−1·9	−0·7
Central India	−0·2	+0·8	+0·6	−0·7	+0·1
Central Provinces	−2·5	+0·2	−0·1	−1·3	−0·9
Hyderabad	−2·2	+0·6	−0·8	−2·1	−1·1
Mysore	−0·3	+0·1	+0·4	−0·1	0
Madras	−0·6	+0·3	+0·1	−0·9	−0·3

The abnormalities disclosed in the last figure column of the above statement agreed closely with those of rainfall, except in the case of Central India, Rajputana, Bombay, Mysore and Madras.

(*b*) In the Satpuras, the Aravalis and the Himalayas and Baluchistan the state of the skies was practically the same as in the adjacent plains.

TABLE 76.

STATION.	DEPARTURE OF MEAN 8 HRS. CLOUD AMOUNT FROM NORMAL.				
	June.	July.	August.	September.	Period, June to September.
Aden	−0·2	+0·9	−0·5	−0·4	−0·1
Baghdad	+0·5	0	−0·2	+0·2	+0·1
Bushire	0	−0·3	−0·4	+0·3	−0·1
Tehran	+0·4	−0·5	?	−0·4	?
Ispahan	+0·5	−0·5	−0·1	0	0
Jask	−0·5	+3·7	+1·8	−1·3	+0·9
Muscat	+0·5	+5·5	+1·0	−0·8	+1·5
Meshed	+0·1	+0·5	?	−0·6	?
Chaman	−0·5	0	−0·6	−0·2	−0·3
Quetta	−0·3	+0·7	+0·2	−0·2	+0·1
Cherat	+0·8	+1·9	+1·1	−1·5	+0·6
Murree	−1·8	+1·7	+2·0	−1·4	+0·1
Gilgit	0	−2·0	−1·4	−1·3	−1·2
Srinagar	−1·5	−1·3	−0·9	−1·1	−1·2
Simla	−2·3	−0·2	−0·1	−0·8	−0·9
Leh	−0·1	−1·8	+0·7	−1·5	−0·7
Chakrata	+1·2	+2·9	+3·3	+1·5	+2·2
Darjiling	0	−0·1	−0·1	−0·1	−0·1
Pachmarhi	−3·1	+0·7	+0·4	−2·9	−1·2
Mount Abu	−1·5	+0·2	−0·2	−0·7	−0·5

IV.—The retreating south-west monsoon period.—In most parts of the country the sky was clearer even than usual in October and December, and was covered to more than the average extent in November. For the period as a whole the departures from normal were of no consequence.

TABLE 77.

Division.	Departure of mean 8 hrs. cloud amount from normal.			
	October.	November	December.	Period, October to December.
Burma	+0·9	+1·0	+0·3	+0·7
Assam	−1·0	+0·6	−0·2	−0·2
Bengal	−0·1	+0·8	−0·4	+0·1
Bihar and Orissa	−0·7	+0·3	−0·7	−0·4
United Provinces	−0·9	+0·5	−0·3	−0·2
Punjab	−0·3	−0·6	+0·2	−0·2
North-West Frontier Province	−0·2	−1·0	+1·3	0
Sind	−0·1	−0·9	+0·2	−0·3
Rajputana	+0·1	−0·3	−0·2	−0·1
Bombay	+0·4	+0·5	−0·1	+0·3
Central India	−0·1	+0·8	0	+0·2
Central Provinces	−0·3	+0·5	−0·4	−0·1
Hyderabad	−0·3	−0·1	−0·5	−0·3
Mysore	+0·6	+0·5	+0·3	+0·5
Madras	+0·1	+0·4	−0·2	+0·1

In the western Himalayas, Baluchistan and the greater part of Persia the proportion of cloud was low in October and November and excessive in December, an indication that the winter conditions there were late in setting in.

TABLE 78.

Station.	Departure of mean 8 hrs. cloud amount from normal.			
	October.	November.	December.	Period, October to December.
Aden	−0·7	−2·1	+0·7	−0·7
Baghdad	+2·3	+1·0	+2·7	+2·0
Bushire	+0·1	−2·4	+1·3	−0·3
Tehran	+0·5	−1·8	+1·5	+0·1
Ispahan	0	−2·4	−1·3	−1·2
Jask	−0·4	−1·1	+1·5	0
Muscat	−0·3	+0·5	+3·6	+1·3
Meshed	−0·7	−2·2	−0·4	−1·1
Chaman	−0·6	−2·0	−0·2	−0·9
Quetta	−0·4	−1·7	+1·2	−0·3
Cherat	−0·3	−1·0	+1·8	+0·2
Murree	−0·4	−0·8	+1·3	0
Gilgit	−2·0	−2·0	−1·8	−1·9
Srinagar	−1·4	−0·9	+0·5	−0·6
Simla	−0·1	−0·6	−0·2	−0·3
Leh	−1·5	−2·1	+0·2	−1·1
Chakrata	−0·2	−0·3	+0·2	−0·1
Darjiling	−1·5	+0·4	+0·6	−0·2
Pachmarhi	−2·5	−0·6	−1·4	−1·5
Mount Abu	+0·6	−0·5	+0·5	+0·2

The year.—On the mean of all the observing stations in the plains of India the cloud amount of the whole year was 0·2 short of the normal value. The defect was not persistent through the year, for the proportion of cloud was higher than usual in January, April and November and equal to the normal in July.

TABLE 79.

	Departure from Normal of the Indian Area.												
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Cloud amount at 8 hours	+0·8	−0·1	−0·5	+0·6	−0·3	−1·2	0	−0·3	−1·1	−0·1	+0·3	−0·1	−0·2

These anomalies were parallel with those of rainfall in nine of the twelve months and with those of the absolute humidity in seven months.

In point of geographical distribution Central India had more than the normal amount of cloud, and Assam, the United Provinces, Sind and Hyderabad had less than the average, while in the rest of the country the state of the skies was almost normal.

Snowfall.

(A).—The cold weather of 1911-1912 and the succeeding hot weather:—

(*a*) According to the very limited information available the winter was very severe and prolonged over a portion of Central Asia. In Transcaspia and Russian Turkistan snowfall is reported to have occurred as late as the end of April.

(*b*) In the Persian area the winter commenced in November, before the average date. Conditions were more unsettled than usual in December and January, but during the three succeeding months the weather was on the whole drier than usual. Little or no information is available for May, but it is almost certain that no abnormal precipitation occurred in that month.

(*c*) In Baluchistan precipitation was much heavier than the average in November, January and April, and about normal or in defect in other months.

(*d*) In Afghanistan conditions were nearly normal.

(*e*) In the hill districts of the North-West Frontier Province, according to the available information, the snowfall was above the average in October, November and January, and probably also in April and the earlier part of May, was equal to the normal in December, and was lighter than usual in February and March.

(*f*) In Kashmir the snowfall was in excess in November and in excess locally also in May, and was about normal or in defect in December, March and April. On the higher hills near Kargil snow lay five feet deep in the beginning of June.

(*g*) In the Punjab Himalayas the snowfall was probably on the whole less than usual; it was above the average only in October and November. In the Chamba and Kulu Hills snow fell as low as 10,000 feet on the 25th May. The unsettled weather of April and May had the effect of retarding to some extent the melting of the snow, and the amount lying at the end of May was probably in some places thicker than usual.

(*h*) In the Kumaon Hills the winter began abnormally early, and in November snow is reported to have fallen as low as 4,000 feet in the hills north of Chakrata. The fall was very light in December and rather heavy in January. During the following three months the quantity received was apparently by no means excessive and the aggregate fall of the whole period, October to May, was probably not very different from the normal.

(*i*) The snowfall in the Assam Himalayas was, as far as can be judged from the few reports received, heavier than that of the two preceding winters, and probably in excess.

(*j*) On the whole it may be said that the winter, although it began unusually early, was not severe, the snowfall during December, February and March having been below the normal. Depressions of the winter type were more in evidence than usual in April and May, but it is almost certain that no widespread fall of snow occurred in those months.

The accumulations existing at the close of May appeared however to be on the whole somewhat in excess, owing chiefly to the abnormal thickness of the unmelted residue of last year's heavy snowfall.

(B).—The south-west monsoon period, June to September:—

During June there was no widespread heavy snowfall and the previous accumulations were melting fast.

During July no snow fell except the usual amounts on the higher ranges.

In August there was no widespread heavy snowfall and the previous accumulations were melting fast.

In September the snowfall of the month and the accumulations of snow were approximately normal.

(C).—The period October to December:—

During October so far as can be estimated the snowfall of the month was probably in excess locally in the North-west Frontier Province, but was normal in the Punjab and the United Provinces.

So far as can be judged from the available information the snowfall of November was much in excess of the normal in Tibet, Sikkim and parts of Afghanistan, and probably in defect in the North-West Frontier Province. In the Punjab Himalayas and the Kumaon Hills the snowfall was on the whole either normal or slightly above it.

In December the snowfall was probably heavier than usual locally in Baluchistan and Afghanistan, but was deficient in the western Himalayas and the greater part of the North-West Frontier Province.

Rainfall.

The rainfall data of India are now issued annually in a separate volume entitled "Rainfall of India." The twenty-second volume, that of 1912, contains the whole rainfall data of 2,791 stations which are there classified under their res-

pective administrative divisions according to the following scheme :—

Province.	Number of stations.
Burma	198
Assam	124
Bengal	225
Bihar and Orissa	269
United Provinces of Agra and Oudh	276
Punjab	188
North-West Frontier Province	33
Bombay	289
Madras (including Pudukkottai, Travancore and Cochin)	490
Coorg	10
Central Provinces	173
Mysore	77
Baluchistan	89
Kashmir	37
Rajputana	185
Central India	116
Hyderabad (Deccan)	22
Total	2,791

The information includes monthly statements of—

(*a*) the actual rainfall, day by day, of all the rainfall stations ;

(*b*) the total rainfall of the month ;

(*c*) the number of rainy days during the month ;

(*d*) the average or normal rainfall of the month of all stations for which rainfall data of at least five years are available ;

(*e*) the average or normal number of rainy days of the month for all stations for which rainfall data of five years or upwards are available.

Symons' rain-gauges are now used at all rain-gauge stations with the exception of those in Mysore. The time of measuring rainfall is 8 hrs. by local time throughout India, and the amounts registered give the rainfall of the previous 24 hours, and hence generally of the previous civil day.

The three tables (Tables 80 to 82) give summaries of the rainfall data of the year. The first and second tables give average rainfall data based on the returns of about 2,000 rain-gauge stations for the 15 chief political divisions and the 33 sub-divisions respectively, while the third table (Table 82) contains data of the number of rainy days for the 33 sub-divisions for the four seasons into which the year has been divided.

TABLE. 80—*Average, over the 15 chief political divisions, of the actual and normal rainfall for the four seasons of the year 1912, and for the whole year.*

Division.	January and February.				March to May.				June to September.				October to December.				Whole year.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"		"	"	"		"	"	"		"	"	"		"	"	"	
Burma	0·70	0·27	+0·43	+159	10·41	10·79	−0·38	− 4	58·58	61·32	−2·74	− 4	9·22	7·28	+1·94	+27	78·91	79·66	−0·75	− 1
Assam	2·81	2·02	+0·79	+ 39	26·13	25·09	+1·03	+ 4	63·66	64·70	−1·04	− 2	8·63	6·33	+2·30	+36	101·23	98·14	+3·14	+ 3
Bengal	0·68	1·26	−0·58	− 46	17·16	12·36	+4·80	+39	52·08	56·31	−4·23	− 8	9·84	5·40	+4·44	+82	79·76	75·33	+4·43	+ 6
Bihar and Orissa	0·93	1·19	−0·26	− 22	4·26	3·97	+0·29	+ 7	36·63	43·37	−6·54	−15	4·09	3·95	+0·14	+ 4	46·11	52·48	−6·37	−12
United Provinces	1·25	1·52	−0·27	− 18	0·97	1·21	−0·24	−20	31·07	34·99	−3·92	−11	0·80	1·81	−1·01	−56	34·09	39·53	−5·44	−14
Punjab	2·30	2·09	+0·21	+ 10	1·58	1·69	−0·11	− 7	15·13	16·02	−0·88	− 5	0·46	0·81	−0·35	−43	19·47	20·60	−1·13	− 5
North-West Frontier Province	3·56	2·66	+0·90	+ 34	2·92	3·89	−0·97	−25	8·96	8·46	+0·50	+ 6	0·34	1·23	−0·89	−72	15·78	16·24	−0·46	− 3
Sind	0·35	0·53	−0·18	− 34	0·11	0·39	−0·28	−72	4·66	5·49	−0·83	−15	0	0·22	−0·22	−100	5·12	6·63	−1·51	−23
Rajputana	0·53	0·55	−0·02	− 4	0·36	0·64	−0·28	−44	21·47	19·19	+2·28	+12	0·30	0·68	−0·38	−56	22·66	21·06	+1·60	+ 8
Bombay	0·01	0·18	−0·17	− 94	1·23	1·50	−0·27	−23	43·06	42·39	+0·67	+ 2	4·89	3·67	+1·22	+33	49·19	47·84	+1·35	+ 3
Central India	0·41	0·87	−0·46	− 53	9·19	9·53	−0·34	− 4	32·31	35·14	−2·83	− 8	2·29	1·56	+0·73	+47	35·20	38·10	−2·90	− 8
Central Provinces	1·89	0·75	+1·14	+152	0·39	1·17	−0·78	−67	34·20	36·92	−2·72	− 7	1·42	2·55	−1·13	−44	37·90	41·39	−3·49	− 8
Hyderabad	1·19	0·25	+0·94	+376	1·13	1·86	−0·73	−39	19·98	26·25	−6·27	−24	1·98	4·12	−2·14	−52	24·28	32·48	−8·20	−25
Mysore	0·21	0·14	+0·07	+ 50	4·48	5·34	−0·86	−16	29·30	22·98	+6·32	+28	10·03	7·73	+2·25	+29	44·02	36·24	+7·78	+21
Madras	0·43	0·84	−0·41	− 49	3·18	4·60	−1·42	−31	25·86	24·06	+1·80	+ 7	16·29	13·75	+2·53	+18	45·76	43·26	+2·50	+ 6
Mean of India	1·01	0·90	+0·11	+ 12	4·28	4·39	−0·11	− 3	33·66	35·40	−1·74	− 5	4·93	4·83	+0·60	+14	43·88	45·02	−1·14	− 3

TABLE 81.—*Average over the 33 sub-divisions of the actual and normal rainfall for the four seasons of the year 1912, and for the whole year.*

SUB-DIVISION.	JANUARY AND FEBRUARY.				MARCH TO MAY.				JUNE TO SEPTEMBER.				OCTOBER TO DECEMBER.				WHOLE YEAR.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"		"	"	"		"	"	"		"	"	"		"	"	"	
1. Bay Islands	19·26	1·24	+18·02	+1453	6·72	15·38	−8·66	−56	63·20	61·44	+1·76	+3	14·93	20·75	−5·80	−28	104·11	98·79	+5·32	+5
2. Lower Burma	1·28	0·25	+1·03	+412	14·94	14·31	+0·13	+1	93·25	99·06	−5·81	−6	10·76	8·75	+2·01	+23	120·63	122·37	−1·96	+0
3. Upper Burma	0·31	0·27	−0·06	+22	6·46	7·29	−0·83	−11	29·11	28·44	+0·67	+2	7·89	5·99	+1·90	+32	43·97	41·99	+1·98	+4
4. Assam	2·31	2·02	+0·29	+39	26·13	25·00	+1·09	+4	63·66	64·70	−1·04	−2	8·63	6·33	+2·30	+36	101·28	98·14	+3·14	+3
5. Bengal	0·68	1·26	−0·58	−46	12·45	12·36	+0·09	+39	52·08	56·31	−4·23	−8	6·54	5·40	+1·14	+22	79·76	75·33	+4·43	+6
6. Orissa	2·33	1·00	+1·33	+133	4·47	5·77	−1·30	−21	40·44	44·01	−3·57	−8	6·73	6·94	−0·21	−3	54·07	57·72	−3·65	−6
7. Chota Nagpur	1·06	1·27	−0·19	−15	3·12	3·91	−0·79	−20	37·42	44·90	−7·48	−17	3·19	3·33	−0·13	−4	44·81	53·40	−8·59	−16
8. Bihar	0·38	1·23	−0·85	−69	4·49	3·30	+1·19	+36	35·23	42·62	−7·39	−17	3·31	2·99	+0·32	+11	43·41	50·14	−6·73	−13
9. United Provinces, East	0·77	1·23	−0·46	−37	0·97	1·12	−0·15	−13	30·55	35·46	−4·91	−14	1·17	2·31	−1·14	−49	33·46	40·12	−6·66	−17
10. Do. do. West	1·20	1·25	−0·05	−3	0·99	1·21	−0·22	−24	31·72	34·49	−2·77	−8	0·38	1·25	−0·87	−70	34·86	38·90	−4·04	−10
11. Punjab, East and North	2·44	2·34	+0·10	+4	1·55	1·80	−0·25	−14	17·76	18·61	−0·85	−5	0·56	0·91	−0·35	−38	22·30	23·63	−1·36	−6
12. Punjab, South-west	1·74	1·12	+0·62	+55	1·67	1·28	+0·39	+30	5·01	6·02	−1·01	−17	0·12	0·40	−0·28	−70	8·51	8·82	−0·31	−4
13. Kashmir	5·40	6·08	−0·68	−11	7·46	6·48	+0·98	+15	7·04	10·66	−3·62	−34	1·73	2·36	−0·63	−27	21·63	25·58	−3·95	−15
14. North-West Frontier Province.	3·56	2·63	+0·90	+34	2·92	3·99	−0·07	−25	8·96	8·46	+0·50	+6	0·34	1·23	−0·89	−72	15·78	16·24	−0·46	−3
15. Baluchistan	3·69	2·85	+0·84	+29	1·18	1·78	−0·60	−34	2·80	2·14	+0·66	+17	1·62	1·52	+0·50	+33	8·30	8·29	+0·10	+1
16. Sind	0·35	0·53	−0·18	−34	0·11	0·39	−0·28	−72	4·66	5·49	−0·83	−15	0	0·22	−0·22	−100	5·12	6·63	−1·51	−23
17. Rajputana, West	0·35	0·29	+0·06	+21	0·28	0·45	−0·16	−36	11·51	10·67	+0·84	+8	0·39	0·41	−0·02	−5	12·53	11·81	+0·72	+6
18. Do. East	0·62	0·65	−0·03	−5	0·38	0·73	−0·35	−48	26·13	22·35	+3·78	+17	0·26	0·78	−0·52	−67	27·39	24·51	+2·88	+12
19. Gujarat	0	0·15	−0·15	−100	0·05	0·27	−0·22	−81	40·24	33·47	+6·77	+20	1·60	1·16	+0·44	+38	41·89	35·05	+6·84	+20
20. Central India, West	0·38	0·54	−0·16	−30	0·13	0·39	−0·26	−67	29·75	32·20	−2·45	−8	2·52	1·18	+1·34	+114	33·72	34·31	−1·59	−5
21. Do. East	0·43	1·50	−1·07	−71	0·39	0·80	−0·47	−59	35·09	40·86	−5·77	−14	1·46	2·29	−0·83	−36	37·33	45·45	−8·12	−18
22. Berar	0·91	0·52	+0·39	+75	0·20	0·98	−0·78	−80	24·00	27·16	−3·16	−12	0·82	2·57	−1·75	−68	25·93	31·23	−5·30	−17
23. Central Provinces, West	1·97	0·93	+0·64	+101	0·19	0·97	−0·78	−80	36·23	41·31	−5·08	−12	2·42	2·42	0	0	40·99	45·63	−4·64	−10
24. Do., East	3·36	0·85	+2·81	+331	1·02	1·84	−0·82	−45	49·48	47·49	+1·99	+4	0·77	2·72	−1·95	−72	54·89	52·90	+1·99	+4
25. Konkan	0	0·18	−0·18	−100	1·54	1·98	−0·44	−22	102·16	105·56	−3·40	−3	7·20	5·43	+1·77	+33	110·90	113·15	−2·25	−2
26. Bombay Deccan	0·03	0·19	−0·16	−84	1·89	2·31	−0·42	−18	23·25	25·03	−1·78	−7	6·20	4·65	+1·55	+33	31·37	32·16	−0·81	−3
27. Hyderabad, North	0·93	0·24	+0·69	+287	0·83	1·50	−0·67	−45	20·05	30·15	−10·10	−33	1·58	3·90	−2·33	−59	33·39	35·79	−12·40	−35
28. Do., South	1·40	0·26	+1·14	+438	1·38	2·15	−0·77	−36	19·95	23·01	−3·06	−13	2·32	4·30	−1·98	−46	25·05	29·72	−4·67	−16
29. Mysore	0·21	0·14	+0·07	+50	4·48	5·34	−0·86	−16	29·30	22·98	+6·32	+28	10·03	7·78	+2·25	+29	44·02	36·24	+7·78	+21
30. Malabar	0·12	0·40	−0·28	−70	11·73	10·64	+1·09	+10	120·29	102·37	+17·92	+18	19·00	13·96	+5·04	+36	151·14	127·37	+23·77	+19
31. Madras, South-east	0·39	1·18	−0·79	−67	2·67	4·68	−2·01	−43	9·61	11·75	−2·14	−18	22·14	17·33	+4·81	+28	34·81	34·94	−0·13	0
33. Do., Deccan	0·20	0·19	+0·01	+5	1·30	2·46	−1·16	−47	15·50	14·98	+0·52	+3	8·37	6·59	+2·28	+35	25·37	24·22	+1·65	+7
33. Do., Coast, North	0·67	0·68	−0·01	−1	2·23	3·51	−1·29	−37	28·58	24·51	+4·07	+17	8·64	10·64	−2·00	−19	40·11	39·34	+0·77	+2

TABLE 82.—*Average, over the 33 sub-divisions of the actual and normal number of rainy days for the four seasons of the year 1912, and for the whole year.*

SUB-DIVISION.	JANUARY AND FEBRUARY			MARCH TO MAY.			JUNE TO SEPTEMBER.			OCTOBER TO DECEMBER.			WHOLE YEAR.		
	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.
1. Bay Islands	10·0	2·3	+7·7	10·0	20·3	−10·3	76·5	79·9	−3·4	24·5	26·7	−2·2	121·0	129·2	−8·2
2. Lower Burma	2·3	0·4	+1·9	12·4	16·5	− 4·1	97·1	90·1	+7·0	15·1	12·3	+2·8	116·9	119·3	−2·4
3. Upper Burma	0·7	0·7	0	10·0	11·2	− 1·2	46·7	40·7	0	11·3	9·0	+2·3	62·7	61·6	+1·1
4. Assam	6·1	5·0	+1·1	36·2	32·7	+ 3·5	65·5	67·9	−2·4	10·7	8·8	+1·9	118·5	114·4	+4·1
5. Bengal	1·5	2·3	−0·8	21·7	14·4	+ 7·3	58·9	59·7	−0·8	8·3	6·1	+2·2	90·4	82·5	+7·9
6. Orissa	4·8	1·8	+3·0	7·4	8·9	− 1·5	52·0	52·2	−0·2	4·3	7·7	−3·4	68·5	70·6	−2·1
7. Chota Nagpur	2·2	2·7	−0·5	6·9	7·1	− 0·2	51·0	53·9	−2·9	3·4	4·6	−1·2	63·5	68·3	−4·8
8. Bihar	1·2	2·6	−1·4	7·5	5·3	+ 2·2	43·3	46·7	−3·4	3·8	3·5	+0·3	54·8	58·1	−3·3
9. United Provinces, East	1·6	2·7	−1·1	2·2	2·4	− 0·2	35·9	38·4	−2·5	2·3	2·4	−0·1	41·7	45·9	−4·2
10. Do. do., West	3·1	3·6	−0·5	2·7	3·1	− 0·4	32·4	34·9	−2·5	0·9	1·9	−1·0	39·3	43·5	−4·2
11. Punjab, East and North	4·0	4·5	−0·5	4·7	4·0	+ 0·7	18·3	19·9	−1·6	1·4	1·7	−0·3	28·4	30·1	−1·7
12. Punjab, South-west	4·1	2·7	+1·4	4·3	3·1	+ 1·2	6·9	8·1	−1·2	0·3	0·9	−0·6	15·6	14·8	+0·8
13. Kashmir	8·8	9·8	−1·0	14·4	12·9	+ 1·5	11·8	15·5	−3·7	5·0	5·2	−0·2	40·0	43·4	−3·4
14. North-West Frontier Province	6·5	5·1	+1·4	8·0	7·7	+ 0·3	11·9	11·6	+0·3	1·3	2·1	−0·8	27·7	26·5	+1·2
15. Baluchistan	8·0	6·6	+1·4	3·6	4·8	− 1·2	4·3	3·7	+0·6	2·8	3·5	−0·7	18·7	18·6	+0·1
16. Sind	1·0	1·5	−0·5	0·2	1·0	− 0·8	7·1	6·2	+0·9	0	0·5	−0·5	8·3	9·2	−0·9
17. Rajputana, West	1·0	0·8	+0·2	0·6	1·1	− 0·5	16·6	13·4	+3·2	0·9	0·8	+0·1	19·1	16·1	+3·0
18. Do., East	1·5	1·6	−0·1	1·1	1·9	− 0·8	30·1	27·6	+2·5	0·9	1·6	−0·7	33·6	32·7	+0·9
19. Gujarat	0	0·3	−0·3	0·2	0·6	− 0·4	41·0	36·4	+4·6	1·7	1·6	+0·1	42·9	38·9	+4·0
20. Central India, West	0·7	1·2	−0·5	0·4	0·9	− 0·5	38·1	39·1	−1·0	2·5	2·3	+0·2	41·7	43·5	−1·8
21. Do., East	1·5	3·1	−1·6	1·2	1·9	− 0·7	41·6	44·1	−2·5	1·6	3·2	−1·6	46·1	52·3	−6·2
22. Berar	1·8	1·1	+0·7	0·8	2·1	− 1·3	34·1	38·1	−4·0	2·1	3·6	−1·5	38·8	44·9	−6·1
23. Central Provinces, West	3·7	1·8	+1·9	0·6	2·3	− 1·7	42·2	47·1	−4·9	1·6	3·5	−1·9	48·1	54·7	−6·6
24. Do., East	6·7	1·6	+5·1	2·4	3·9	− 1·5	48·8	51·7	−2·9	1·6	3·9	−2·3	59·5	61·1	−1·6
25. Konkan	0	0·3	−0·3	2·4	2·7	− 0·3	79·7	85·9	−6·2	8·0	7·7	+0·3	90·1	96·6	−6·5
26. Bombay, Deccan	0·1	0·4	−0·3	3·7	4·4	− 0·7	33·1	38·3	−5·2	8·7	7·0	+1·7	45·6	50·1	−4·5
27. Hyderabad, North	2·3	0·5	+1·8	2·5	3·6	− 1·1	32·6	42·3	−9·7	2·9	5·9	−3·0	40·3	52·3	−12·0
28. Do., South	2·9	0·6	+2·3	3·3	4·3	− 1·0	32·9	37·7	−4·8	4·5	7·0	−2·5	43·6	49·6	−6·0
29. Mysore	0·6	0·3	+0·3	7·6	8·9	− 1·3	39·2	33·1	+6·8	15·2	11·8	+3·4	68·3	54·1	+9·2
30. Malabar	0·3	0·4	−0·1	13·9	12·9	0	89·7	85·3	+4·4	21·9	18·0	+3·9	124·8	116·6	+8·3
31. Madras, South-east	1·0	1·7	−0·7	4·9	6·9	− 2·0	15·7	18·1	−2·4	24·0	20·8	+3·2	45·6	47·5	−1·9
32. Do., Deccan	0·4	0	+0·4	3·2	4·4	− 1·2	26·9	25·2	+1·7	11·9	9·5	+2·4	42·4	39·1	+3·3
33. Do., Coast, North	1·5	0·8	+0·7	4·1	5·5	− 1·4	30·5	35·3	−4·8	9·5	10·9	−1·4	54·6	53·5	+2·1

I.—The cold weather period.—In point of precipitation and the general character of the associated disturbances there was a well-marked resemblance between the cold weather season of 1912 and the corresponding period of 1911.

A large number of disturbances were recorded in Persia, but with the exception of a few they were of small vitality, and either failed altogether to advance into India or produced comparatively little precipitation. On the other hand there was during February a marked tendency to the formation in the north Deccan of shallow depressions which were attended by thunderstorms there and over Orissa and the north coast of Madras.

The distribution of seasonal rainfall was somewhat unusual. Thus the aggregate quantity was in decided excess of the normal in Lower Burma, Assam, Orissa, the Punjab South-west, the North-West Frontier Province, the whole of the Central Provinces and Hyderabad, and was well below the average in Bengal, Bihar, the United Provinces East, Central India East and Madras South-east.

TABLE 83.

Sub-Division.	Rainfall of period, January and February.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Lower Burma	1·28	0·25	+1·03	+412
Assam	2·81	2·02	+0·79	+ 39
Orissa	2·33	1·00	+1·33	+133
Punjab, South-west	1·74	1·12	+0·62	+ 55
North-West Frontier Province	3·56	2·66	+0·90	+ 34
Berar	0·91	0·52	+0·39	+ 75
Central Provinces, West	1·87	0·93	+0·94	+101
Central Provinces, East	2·66	0·85	+2·81	+331
Hyderabad, North	0·93	0·24	+0·69	+287
Hyderabad, South	1·40	0·26	+1·14	+438
Bengal	0·68	1·26	−0·58	− 46
Bihar	0·33	1·23	−0·85	− 69
United Provinces, East	0·77	1·23	−0·46	− 37
Central India, East	0·43	1·50	−1·07	− 71
Madras, South-east	0·29	1·18	−0·79	− 67

Over the rest of the plains of India the fall was very nearly normal in amount.

A noteworthy feature of the meteorology of the period was the occurrence during the first fortnight of January of remarkably heavy rainfall in the Bay Islands—a circumstance prejudicial to winter precipitation in northern India.

TABLE 84.

Sub-Division.	Rainfall of period, January and February.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Bay Islands	19·26	1·24	+18·02	+1453

In Persia, Afghanistan as represented by Kabul and in Kashmir the weather was on the whole drier than usual, but in Baluchistan, and at Kashgar the total precipitation of the season was distinctly above the average.

TABLE 85.

Station or Sub-Division.	Rainfall of period, January and February.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Aden	0·55	0·72	−0·17	−24
Baghdad	1·56	2·41	−0·85	−35
Busrah	1·50	2·22	−0·72	−32
Bushire	3·68	4·74	−1·06	−22
Bahrein	1·16	0·96	+0·20	+21
Tehran	1·25	2·73	−1·48	−54
Ispahan	1·79	1·07	+0·72	+67
Jask	2·32	1·65	+0·67	+41
Muscat	2·82	1·86	+0·96	+52
Meshed	1·42	1·71	−0·29	−17
Kabul	0·40	2·93	−2·53	−86
Kashgar	1·53	0·27	+1·26	+467
Kashmir	5·40	6·08	−0·68	−11
Baluchistan	3·69	2·85	+0·84	+29

In the west of the equatorial belt there was in both months a pronounced excess of precipitation at Seychelles and a slight excess at Zanzibar.

TABLE 86.

Station.	Departure from normal of rainfall in		
	January.	February.	Period January and February.
	"	"	"
Zanzibar	+0·99	+2·89	+3·88
Seychelles	+8·66	+9·93	+18·59
Mauritius	−0·18	+24·40	+24·22

II.—The hot weather period.—During this period also a series of disturbances of the cold weather type were transmitted into north-west India from the highlands to the west of the Indus, but most of them were feebly marked, and within India the precipitation due to them occurred almost entirely in the extreme north. They had however the effect of hindering greatly the development of the usual hot weather characteristics.

The total precipitation of the whole season, March to May, fell short of the normal all over the country with the exception of Lower Burma, Assam, Bengal, Bihar, the Punjab South-west and Malabar. The deficiency was more than an inch in amount in Orissa and the whole of Madras excluding Malabar.

There was an almost entire absence in May of the usual temporary advances of monsoon winds, and it is owing to this circumstance that the Bay Islands which under ordinary conditions receive about 13″ of rain in May had only 6″.

Below are given the data for the region of greatest deficiency of rainfall:—

TABLE 87.

Sub-division.	Rainfall of period, March to May.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	″	″	″	
Bay Islands	6·72	15·38	—8·66	—56
Orissa	4·57	5·77	—1·20	—21
North-West Frontier Province	2·92	3·89	—0·97	—25
Madras, South-east	2·67	4·68	—2·01	—43
Madras, Deccan	1·30	2·46	—1·16	—47
Madras Coast, North	2·22	3·51	—1·29	—37

In Kashmir there was an excess of precipitation, but in Baluchistan and Persia the season was on the whole appreciably drier than usual. Conditions were apparently different in Arabia, for there all the three representative stations had more than their proper allowance.

TABLE 88.

Station or sub-division.	Rainfall of period, March to May.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	″	″	″	
Aden	1·26	1·05	+0·21	+ 20
Baghdad	0·82	2·45	—1·63	— 67
Busrah	1·53	2·03	—0·50	— 25
Bushire	0·49	1·41	—0·92	— 65
Bahrein	1·36	0·65	+0·71	+109
Tehran	2·05	3·51	—1·46	— 42
Ispahan	0·49	1·91	—1·42	— 74
Jask	0·53	0·83	—0·30	— 36
Muscat	3·81	0·87	+2·94	+338
Meshed	4·64	5·46	—0·82	— 15
Kashgar	1·32	1·35	—0·03	— 2
Kashmir	7·46	6·48	+0·98	+ 15
Baluchistan	1·18	1·78	—0·60	— 34

In the equatorial belt the total of the period was below the normal both at Zanzibar and Seychelles—at the former station due largely to the scanty fall in May and at the latter owing solely to the shortage in March and April, the quantity received in May having exceeded the normal by 50 per cent.

TABLE 89.

Station.	Departure from normal of rainfall in			
	March.	April.	May.	Period, March to May.
	″	″	″	″
Zanzibar	+1·33	—0·92	—7·97	—7·56
Seychelles	—6·72	—2·29	+3·11	—5·90
Mauritius	—6·29	+0·86	+2·86	—2·57

III.—The south-west monsoon period.—The monsoon rains of 1912 were distinctly more favourable than those of 1911.

The regular burst of the monsoon occurred on June 8th on the Malabar coast, on the 17th at Bombay, on the 18th in Gujarat and on the 20th in Bengal. The currents however failed to extend into the interior in the normal manner and it was not until July 10th that the rains were fully established in northern and central India. During the rest of July and the whole of August, with the exception of the interval between the 12th and the 23rd when an almost complete break obtained in north-west and central India, the monsoon was more active than usual; but its activity was shown chiefly in the tract of country stretching from Ganjam to Gujarat.

The currents weakened materially in the beginning of September and withdrew from north-west India on the 3rd, about a fortnight in advance of the normal date. The rainfall of September was in consequence in defect throughout the country with the exception of a few localities.

When summed over the whole period the rainfall was in excess by 20 per cent. in Gujarat and by 28 per cent. in

Mysore, in defect between 15 and 35 per cent. in Bihar, Chota Nagpur, the Punjab South-west, Sind, Hyderabad North and Madras South-east and nearly normal over the rest of the country.

TABLE 90.

SUB-DIVISION.	RAINFALL OF PERIOD, JUNE TO SEPTEMBER.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Bay Islands	63·20	61·44	+ 1·76	+ 3
Lower Burma	92·85	99·06	− 6·21	− 6
Upper Burma	29·11	28·44	+ 0·67	+ 2
Assam	63·66	64·70	− 1·04	− 2
Bengal	52·08	56·31	− 4·23	− 8
Orissa	40·44	44·01	− 3·57	− 8
Chota Nagpur	37·42	44·90	− 7·48	−17
Bihar	35·23	42·62	− 7·39	−17
United Provinces, East	30·55	35·46	− 4·91	−14
Do. do., West	31·72	34·49	− 2·77	− 8
Punjab, East and North	17·76	18·61	− 0·85	− 5
Punjab, South-west	5·01	6·02	− 1·01	−17
North-West Frontier Province	8·96	8·46	+ 0·50	+ 6
Sind	4·66	5·49	− 0·83	−15
Rajputana, West	11·51	10·67	+ 0·84	+ 8
Do., East	26·13	22·35	+ 3·78	+17
Gujarat	40·24	33·47	+ 6·77	+20
Central India, West	29·75	32·20	− 2·45	− 8
Do. do., East	35·09	40·86	− 5·77	−14
Berar	24·00	27·16	− 3·16	−12
Central Provinces, West	36·23	41·31	− 5·08	−12
Do. do., East	49·48	47·49	+ 1·99	+ 4
Konkan	102·16	105·56	− 3·40	− 3
Bombay, Deccan	23·25	25·03	− 1·78	− 7
Hyderabad, North	20·05	30·15	−10·10	−33
Do., South	19·95	23·01	− 3·06	−13
Mysore	29·30	22·98	+ 6·32	+28
Malabar	120·29	102·37	+17·92	+18
Madras, South-east	9·61	11·75	− 2·14	−18
Do., Deccan	15·50	14·98	+ 0·52	+ 3
Do., Coast, North	28·58	24·51	+ 4·07	+17

On the mean of all the rain-gauge stations in the plains of India the aggregate fall of the period was in defect by 1·7″ or 5 per cent., as compared with 4″ or 11 per cent., in the previous year.

At stations in the Indian Ocean also the rainfall of the period varied but slightly from the normal.

TABLE 91.

STATION.	RAINFALL OF PERIOD, JUNE TO SEPTEMBER.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Zanzibar	8·13	8·39	−0·26	−3
Seychelles	16·92	14·63	+ 2·29	+16
Mauritus	6·17	8·34	−2·17	−26

Kashmir had less than its ordinary share of precipitation, but in Baluchistan there occurred an excess of 17 per cent. The data for Persia indicate that during June, when the monsoon in India was very weak and unsteady, weather was unusually disturbed at Tehran, Ispahan and Meshed.

TABLE 92.

STATION OR SUB-DIVISION.	RAINFALL OF PERIOD, JUNE TO SEPTEMBER.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Aden	0·02	0·37	−0·35	−95
Baghdad	0	0·05	−0·05	−100
Busrah	0	0·19	−0·19	−100
Bushire	0	0·01	−0·01	−100
Bahrein	0	0	0	0
Tehran	0·54	0·43	+ 0·11	+26
Ispahan	0·22	0·08	+ 0·14	+175
Jask	0	0·06	−0·06	−100
Muscat	0·26	0·17	+ 0·09	+53
Meshed	0·69	0·45	+ 0·24	+53
Kabul	0	0·55	−0·55	−100
Kashmir	7·04	10·66	−3·62	−34
Baluchistan	2·50	2·14	+ 0·36	+17

IV.—The retreating south-west monsoon period.—In October the weather was unusually dry in the Gangetic plain and the central parts of the country owing to the abrupt retreat of the monsoon from these areas at the beginning of the month, about a fortnight before the normal date. On the other hand the monsoon was more than usually vigorous in Bengal, Assam, Burma and the south of the Peninsula.

During November the weather was controlled chiefly by three seaformed disturbances which produced precipitation in excess of the normal over by far the greater part of the country. December was abnormally dry except in Baluchistan: this was especially the case in Madras South-east and the Bay Islands, where the defect in the month's rainfall amounted to 2½" and 3¾" respectively.

Several disturbances of the cold weather type advanced towards India from Persia during December, but they failed to give any rain of importance in the plains.

The rainfall of the period was abundant in Burma, the greater part of north-east India, Central India West, Gujarat the Konkan, the Bombay Deccan, Mysore and Madras excepting the northern coast districts, the excess being large in amount in Bengal, Malabar and Madras South-east. It was on the other hand in large defect in Hyderabad, Berar, the Central Provinces East and the United Provinces East which usually receive moderate to heavy rain during the period.

Over nearly the whole of north-west India also the period was remarkably dry.

The statement below gives data for the areas where the departures from the normal were most marked.

TABLE 93.

Sub-division.	Rainfall of period, October to December.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Bay Islands	14·93	20·73	—5·80	—28
Lower Burma	10·76	8·75	+2·01	+23
Upper Burma	7·89	5·99	+1·90	+32
Assam	8·63	6·33	+2·30	+36
Bengal	9·84	5·40	+4·44	+82
United Provinces, East	1·17	2·31	—1·14	—49
United Provinces, West	0·38	1·25	—0·87	—70
Berar	0·82	2·57	—1·75	—68
Central Provinces, East	0·77	2·72	—1·95	—72
Hyderabad, North	1·58	3·90	—2·32	—59
Hyderabad, South	2·32	4·30	—1·98	—46
Mysore	10·03	7·78	+2·25	+29
Malabar	19·00	13·96	+5·04	+36
Madras, South-east	22·14	17·33	+4·81	+28
Madras, Deccan	8·87	6·59	+2·28	+35
Madras Coast, North	8·64	10·64	—2·00	—19

Precipitation was as largely in defect in Persia, Baluchistan and Kashmir as in the plains of upper India.

TABLE 94.

Station or Sub-division.	Rainfall of period, October to December.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Aden	0·07	0·51	−0·44	− 86
Baghdad	1·38	2·04	−0·66	− 32
Busrah	1·70	1·79	−0·09	− 5
Bushire	1·18	4·91	−3·73	− 76
Bahrein	1·82	0·86	+0·96	+112
Tehran	2·06	2·63	−0·57	− 22
Ispahan	0·07	1·68	−1·61	− 96
Jask	1·93	1·63	+0·30	+ 18
Muscat	1·17	1·04	+0·13	+ 13
Meshed	2·28	1·75	+0·53	+ 30
Kashmir	1·73	2·36	−0·63	− 27
Baluchistan	1·02	1·52	−0·50	− 33

At Zanzibar precipitation was 37 per cent. above the normal, owing entirely to an unusually large rainfall in December, while it was deficient at Seychelles in all the three months. At Mauritius there was an excess in October, and a deficiency in the rest of the period.

TABLE 95.

Station.	Departure from normal of rainfall in			
	October.	November.	December.	Period, October to December.
	"	"	"	"
Zanzibar	−2·69	−2·94	+12·28	+6·65
Seychelles	−0·48	−6·00	− 1·37	−7·85
Mauritius	+5·25	−0·72	− 0·14	+4·39

The year.—On the whole 1912 was a year of deficient rainfall, though not to the same extent as 1911. The defect occurred mainly in the period of the south-west monsoon, the rainfall

amounts received in the other three seasons being not appreciably different from the average.

TABLE 96.

PERIOD.	RAINFALL OF INDIA (WHEN THE SIZE OF AREAS IS TAKEN INTO ACCOUNT) IN 1912.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Cold weather	1·01	0·90	+0·11	+12
Hot "	4·28	4·39	—0·11	− 3
South-west monsoon	33·66	35·40	—1·74	− 5
Retreating south-west monsoon	4·93	4·33	+0·60	+14
Whole year	43·88	45·02	−1·14	− 3

There were also considerable geographical variations. Thus of the larger provinces Assam, Bengal and Mysore had between 3″ and 8″ more than their normal annual fall, while in Bihar and Orissa, the United Provinces and Hyderabad the recorded amounts were upwards of 5″ in defect.

At the three stations representative of the conditions in the Indian Ocean the recorded yearly aggregate was above the normal; the excess at Seychelles and Mauritius was due chiefly to the unusual rainfall of the early part of the year, and that at Zanzibar to the abundant fall in December.

In Persia the weather was drier even than usual in almost all months of the year, but further east in Baluchistan the fall was normal.

In Kashmir the total quantity received during the year fell short of the normal by 15 per cent.

TABLE 97.

STATION OR SUB-DIVISION.	ANNUAL RAINFALL.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Zanzibar	66·01	63·30	+ 2·71	+ 4
Seychelles	104·41	97·28	+ 7·13	+ 7
Mauritius	72·90	49·03	+ 23·87	+ 49
Aden	1·90	2·65	— 0·75	— 28
Baghdad	3·76	6·95	— 3·19	— 46
Busrah	4·73	6·23	— 1·50	— 24
Bushire	5·35	11·07	— 5·72	— 52
Bahrein	4·34	2·47	+ 1·87	+ 76
Tehran	5·90	9·30	— 3·40	— 37
Ispahan	2·57	4·74	— 2·17	— 46
Jask	4·78	4·17	+ 0·61	+ 15
Muscat	8·06	3·94	+ 4·12	+ 105
Meshed	9·08	9·37	— 0·34	— 4
Kashmir	21·63	25·58	— 3·95	— 15
Baluchistan	8·39	8·29	+ 0·10	+ 1

HEM RAJ.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 20 stations in India, etc., in the year 1912.

TABLE

Abstract of observations taken at 10 hrs. and 16 hrs.

Number of sub-division.	Station.	Elevation of bar-cistern above sea-level, in feet.	Pressure.						Temperature of air.									
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressure.	Departure from normal.	Mean reduced to sea-level and gravity, 45° Lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	III.—Bengal.																	
5	Calcutta	21	29·831	29·738	·113	29·793	+·005	29·761	87·6	71·2	16·4	102·2	52·0	50·2	81·8	84·9	78·9	+0·9
	V.—United Provinces of Agra and Oudh.																	
9	Allahabad	309	29·552	29·434	·118	29·489	+·013	29·751	90·7	66·4	24·3	115·5	40·5	75·0	82·4	80·0	77·5	+0·2
	VI.—Punjab.																	
11	Lahore	702	29·135	29·042	·093	29·091	+·010	29·751	90·2	63·4	26·8	113·2	37·2	31·6	79·5	86·0	75·9	+1·2
	IX.—Rajputana.																	
18	Jaipur	1,431	28·441	28·341	·100	28·395	+·003	29·748	91·3	66·1	25·2	116·3	40·1	76·2	83·9	88·7	77·6	+0·5
	X.—Bombay.																	
25	Bombay	37	29·885	29·785	·100	29·832	+·005	29·809	87·3	75·9	11·4	96·3	64·5	30·8	81·5	84·0	80·5	+1·2
	XIV.—Mysore.																	
29	Bangalore	3,021	26·967	26·855	·112	26·914	+·013	29·741	85·3	64·7	20·6	98·6	48·8	49·8	77·0	82·4	73·7	+0·9
	XV.—Madras.																	
31	Pudukkottai	318	29·615	29·474	·141	29·547	...	29·793	93·8	74·9	18·9	106·8	61·1	45·7	86·3	90·5	84·4	...
	Madras	22	29·896	29·782	·114	29·843	0	29·796	91·9	75·5	16·4	108·2	60·5	47·7	86·8	88·8	82·7	+0·9
	Kashmir.																	
14	Srinagar	5,204	25·007	24·931	·076	24·963	...	24·033	48·7	32·9	15·8	57·4	25·8	31·6	38·5	46·7	38·9	...
	Hill stations, excluding Kashmir and Baluchistan.																	
	Simla	7,233	23·127	23·081	·046	23·096	+·020	23·058	61·1	50·1	11·0	82·1	30·1	52·0	56·4	57·9	55·3	+0·2
	Sarain	...	23·165	23·109	·056	23·212	...	23·091	61·3	43·0	18·3	83·3	21·0	62·3	55·7	56·1	51·7	...
	Kalabagh¶	...	20·142	20·090	·052	20·102	...	20·080	52·6	41·5	11·1	64·0	26·1	37·9	49·4	49·9	46·7	...
	Mukteswar	7,502	22·853	22·794	·059	22·817	...	22·775	63·4	46·6	16·8	84·0	27·1	56·9	56·8	59·5	54·8	...
	Katmandu	4,388	25·667	25·571	·096	25·616	+·051*	25·575	77·2	53·6	23·6	89·4	32·2	57·2	67·4	73·1	65·1	+0·5*
	Ootacamund	7,327	23·079	23·010	·069	23·041	...	22·977	66·8	49·3	17·5	77·0	34·7	42·3	62·8	61·4	57·8	...
	Kodaikanal	7,688	23·853	22·791	·062	22·832	...	22·762	65·8	52·2	13·6	77·3	40·7	36·6	63·1	60·1	58·2	...
	Dodabetta	8,5392	22·092	22·027	·065	22·056	...	21·993	60·0	48·2	11·8	70·9	38·8	32·1	56·9	56·1	53·3	...
	Extra India.																	
	Diego Garcia†	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Seychelles	15	29·964	29·894	·070	29·945	+·001*	29·883	83·6	77·6	6·0	88·3	72·5	15·8	81·3	82·3	79·4	+1·2*
	Mauritius‡	181	...	...	...	29·881	—·006	30·010	79·85	67·45	12·4	90·2	53·9	36·3	...	...	73·05	...

N. B.—Elevations in italics indicate barometric determinations.
Note.—The barometric readings are not reduced to sea-level, in the cases of hill or plateau stations, the elevations of which exceed 3,300 feet.

A.

at 20 stations in India, etc., in the year 1912.

Temperature, Wet-bulb.				Vapour tension in inches of mercury.					Humidity.					Cloud.				Rainfall.		Station.	Number of sub-division.
Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Total rainfall for the year.	Heaviest rainfall during the year.		
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
																				III.—Bengal.	
68·9	74·2	74·3	72·5	·703	·767	·725	·746	+·002	89	69	60	75	— 2	4·3	4·7	4·5	—0·1	56·82	3·72	Calcutta	5
																				V.—United Provinces of Agra and Oudh.	
61·9	68·3	69·2	66·4	·537	·532	·475	·526	—·041	79	48	36	57	— 4	3·1	3·1	3·1	—0·4	29·43	3·31	Allahabad	9
																				VI.—Punjab.	
58·4	66·0	68·6	64·3	·468	·406	·467	·437	—·011	75	49	36	55	— 1	2·2	2·6	2·4	—0·5	14·70	3·36	Lahore	11
																				IX.—Rajputana.	
58·4	65·9	67·0	63·8	·433	·456	·417	·442	—·023	63	40	32	48	— 5	2·8	4·2	3·5	—0·2	31·75	4·45	Jaipur	18
																				X.—Bombay.	
71·6	74·9	76·0	74·2	·724	·782	·793	·784	—·008	89	72	69	76	— 2	4·0	3·8	3·9	+0·1	54·05	6·47	Bombay	25
																				XIV.—Mysore.	
62·2	67·2	67·1	65·6	·537	·558	·503	·541	—·001	88	61	48	67	— 1	4·7	5·0	4·9	...	43·11	4·91	Bangalore	29
																				XV.—Madras.	
73·6*	75·7	76·8	75·5*	·785*	·771	·754	·784*	...	92*	63	53	69*	...	5·0	5·9	5·5	...	37·60	2·47	Pudukkottai	31
73·4	77·8	78·0	76·5	·801	·834	·856	·846	+·037	91	66	67	77	+ 1	4·3	4·0	4·1	—0·9	46·69	5·79	Madas.	
																				Kashmir.	
31·3	39·4	43·4	37·0	·159	·102	·249	·198	...	85	81	77	81‡‡	...	6·7	6·1	6·4	...	3·65	1·67	Srinagar	14
																				Hill stations, excluding Kashmir and Baluchistan.	
43·2	47·9	49·5	46·9	·227	·264	·294	·267	—·026	58	54	57	56	— 3	4·8	5·3	5·1	0	59·92	3·06	Simla.	
...	47·7	48·7	...	...	·272	·291	...	...	...	59	62	...	...	5·0	6·1	5·5	...	59·78	5·22	Sarain.	
...	43·9	44·7	...	...	·250	·261	...	...	...	68	70	...	...	5·6	6·5	6·1	...	55·32	7·78	Kalabagh.	
40·6	48·9	51·2	46·9	·209	·283	·310	·268	...	60	58	59	60	...	4·6	5·9	5·3	...	52·86	4·74	Mukteswar.	
51·5	60·2	62·2	58·0	·388	·462	·455	·437	—·012	86	67	55	71	— 2	3·9	5·2	4·5	0	48·98	2·15	Katmandu.	
47·9	54·1	54·9	51·9	·301	·332	·364	·332	...	84	60	69	71	...	5·9	5·6	5·7	...	54·25	2·02	Ootacamund.	
46·7	54·5	55·6	52·3	·281	·357	·401	·338	...	73	65	77	72	...	5·3	7·3	6·3	...	65·23	4·07	Kodaikanal.	
43·1	50·5	51·4	48·3	·224	·307	·335	·288	...	84	67	75	69	...	6·4	7·6	7·0	...	54·84	3·01	Dodabetta.	
																				Extra India.	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	5·7	5·3	5·5	...	53·66	3·90	Diego Garcia.	
71·5	75·9	76·3	74·6	·604	·823	·827	·799	—·013	73	77	74	77	— 4	5·9	6·1	6·0	—0·2**	104·41	8·35	Seychelles.	
...	...	...	68·5	...	...	...	·626	...	...	...	...	76	...	...	...	5·8	...	68·08	7·32	Mauritius.	

† Observations of 8 months and of 9 hrs. and 15 hrs.
‡ Mean of 11 months.
* " " 10 "
" " 9 "

§ Observations of 2 months only.
" " 7 "
** Departure from old normal.

‡‡ Mean of three previous columns.

Table B.—Abstract of observations taken at 8 hrs. at 222 stations in India, etc., in the year 1912.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,000 stations.

	Pressure departure from normal of year.	Temperature of air.								Wind	Hygrometry.				Cloud.		Rainfall.		
		Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Absolute range during year.	Departure of velocity from normal.	Mean humidity of year.	Departure from normal of year.	Mean vapor tension of year.	Departure from normal of year.	Mean cloud amount of year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.
Burma	+·008	88·4	−0·3	71·5	+0·5	79·9	+0·1	16·9	46·7	−0·5	84	+1	·748	0	5·1	+0·3	78·91	79·66	−0·75
Assam	+·012	82·6	−0·8	66·5	−0·3	74·5	−0·5	16·1	45·3	0	89	−2	·692	−·009	5·2	−1·0	101·28	98·14	+3·14
Bengal	+·011	86·1	−0·1	69·7	+0·1	77·9	0	16·4	48·7	−0·8	85	0	·749	−·007	4·5	0	79·76	75·33	+4·43
Bihar and Orissa	+·013	88·3	−0·3	68·4	+0·2	78·3	−0·3	19·9	61·7	+0·1	76	−1	·658	−·001	3·5	−0·2	46·11	52·48	−6·37
United Provinces of Agra and Oudh	+·012	89·1	−0·1	65·7	−0·5	77·4	−0·3	23·4	71·3	−0·3	67	−2	·565	−·015	2·5	−0·5	34·09	39·53	−5·44
Punjab	+·015	89·4	0	63·6	+0·3	76·5	+0·2	25·8	80·3	0	61	−2	·472	−·028	2·5	−0·2	19·47	20·60	−1·13
North-West Frontier Province	−·003	87·9	−0·1	61·0	+0·2	74·5	0	26·8	84·1	−0·5	66	+3	·497	+·011	2·6	+0·1	15·78	16·24	−0·46
Sind	+·006	92·3	+1·2	69·1	+1·0	80·7	+1·2	23·2	70·4	−1·1	64	+1	·613	+·042	2·2	−0·6	5·12	6·63	−1·51
Rajputana	+·008	91·7	+0·2	67·9	+0·2	79·8	+0·2	23·8	75·2	+0·3	51	−3	·451	−·089	2·6	−0·3	22·66	21·06	+1·60
Bombay	+·005	89·9	+0·9	69·6	+0·4	79·8	+0·6	20·3	53·6	−0·7	68	0	·632	−·008	3·5	−0·1	49·19	47·84	+1·35
Central India	+·013	89·3	+0·6	65·2	+0·3	77·2	+0·5	24·1	73·6	−0·6	61	−1	·501	−·020	3·5	+0·5	35·20	38·10	−2·90
Central Provinces	+·011	90·7	+0·8	67·5	+0·6	79·0	+0·7	23·2	70·2	+0·3	58	−5	·500	−·042	3·2	−0·3	37·82	41·39	−3·57
Hyderabad	+·005	92·1	+1·0	69·6	+0·7	81·3	+0·9	22·3	60·9	−0·9	61	−4	·558	−·028	3·7	−0·5	24·25	32·43	−8·30
Mysore	+·011	85·5	+0·5	65·5	+0·7	75·4	+0·6	19·9	46·4	+0·1	76	+1	·587	+·005	5·3	+0·1	44·02	36·24	+7·78
Madras	+·007	90·8	+0·3	74·3	+0·7	82·6	+0·6	16·5	45·1	+0·3	77	0	·770	+·006	4·7	0	45·76	43·26	+2·50

TABLE

(2) Abstract of observations taken at 8 hrs. at 223

Number of sub-division.	STATION.	Elevation of bar-cistern above sea level, in feet.	Pressure, 8 hrs., in inches.							Temperature of air.										
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and to standard gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	I.—Burma.																				
2	Victoria Point	147	29·796	...	29·872	29·957	29·657	·300	·152	78·9	86·7	...	74·9	...	80·8	...	11·7	96·1	65·2	30·9	19·3
	Mergui	65	29·875	+·010	29·871	30·057	29·706	·351	·159	77·4	87·2	—0·3	71·5	+0·3	79·3	0	15·8	97·0	60·8	36·2	23·9
	Tavoy	19	29·923	—·001	29·875	30·105	29·719	·386	·170	76·2	88·2	+0·3	72·7	+1·9	80·4	+0·9	15·5	99·5	58·3	41·2	25·4
	Moulmein	94	29·844	+·020†	29·876	30·039	29·582	·457	·186	75·7	89·2	+0·1	73·0	+0·6	80·5	+0·4	15·2	99·5	61·3	38·2	23·9
	Rangoon	18	29·907	+·008	29·868	30·108	29·637	·471	·197	76·7	89·1	—0·4	73·3	+0·4	81·2	0	15·9	102·0	60·0	42·0	23·9
	Bassein	27†	29·887	+·012	29·860	30·106	29·591	·515	·205	77·5	88·6	+0·5	73·4	+1·4	81·0	+0·3	15·1	102·2	59·9	42·3	23·1
	Diamond Island	41	29·873	+·005	29·849	30·102	29·608	·494	·195	80·7	85·5	0	75·6	+0·4	80·5	+0·2	9·9	92·9	64·5	28·4	16·9
	Toungoo	164	29·754	+·017	29·863	29·973	29·476	·497	·204	75·7	89·7	—0·5	71·2	+0·5	80·5	0	18·5	105·0	53·4	51·6	27·7
	Kyaukpyu	18	29·876	...	29·834	30·133	29·490	·643	·225	77·3	85·1	...	72·7	...	78·9	...	12·4	95·0	56·4	38·6	21·7
	Akyab	20	29·883	+·011	29·843	30·152	29·461	·691	·237	78·6	85·7	—0·4	72·0	—0·2	78·9	—0·3	13·7	98·9	54·5	44·4	23·2
3	Thayetmyo	121	29·772	+·003	29·836	30·024	29·445	·579	·214	77·0	91·1	—0·7	70·4	+0·8	80·8	(+0·1	20·7	106·0	40·4	57·6	21·7
	Minbu	165	29·737	+·003	29·837	29·994	29·379	·615	·223	76·5	91·2	—1·0	71·4	+0·3	81·4	—0·3	19·9	103·5	52·0	50·5	23·1
	Yamethin	567	29·222	—·009	29·286	29·467	28·903	·564	·213	74·7	91·3	—0·9	70·2	+0·8	80·7	—0·1	21·1	107·8	51·5	56·3	21·5
	Mandalay	250	29·640	+·010	29·840	29·998	29·299	·699	·229	77·3	98·8	+1·3†	70·9	—0·2	82·3	+0·5†	22·8	110·7	53·1	58·6	24·1
	Monywa	280	29·622	...	29·854	29·892	29·268	·624	·240	76·1	91·9	...	71·4	...	81·7	...	20·5	110·3	53·1	57·2	31·5
	Lashio	2,820	27·126	+·009	27·072	27·345	26·831	·514	·217	65·5	73·8‡	—3·0‡	62·1§	+0·7§	60·0‡	—1·4‡	24·3‖	85·8	42·5	43·3	35·2
	Bhamo	381	29·529	+·029	29·881	29·818	29·160	·658	·257	69·8	85·9	—0·7	64·8	—0·3	75·4	—0·6	21·1	102·4	43·1	59·3	33·2
	Myitkyina	458	29·427	...	29·355	29·729	29·074	·655	·254	68·6	83·6	...	65·5	...	74·5	...	18·1	100·2	46·0	54·2	29·6
	II.—Assam.																				
4	Dibrugarh	353	29·537	...	29·363	29·863	29·145	·718	·273	68·3	80·1	...	65·2	...	72·6	...	14·9	95·4	45·6	49·8	26·5
	Sibsagar	333	29·575	+·008	29·375	29·909	29·175	·734	·276	69·9	80·9	—0·9	65·4	—0·5	73·2	—0·7	15·5	94·6	44·0	50·6	25·6
	Tezpur	252	29·649	...	29·366	30·000	29·256	·744	·278	70·2	83·1	...	66·9	...	75·1	...	16·2	95·1	47·4	47·8	26·9
	Gauhati	195	29·707	...	29·362	30·051	29·252	·799	·282	71·7	83·8	...	66·1	...	75·0	...	17·7	95·8	47·1	48·7	27·6
	Dhubri	115	29·777§	+·014§	29·849§	30·132	29·325	·807	·259	71·9	82·1	—0·7	67·8	—0·3	75·0	—0·5	14·3	92·5	48·1	44·4	24·3
	Silchar	104	29·799	+·013	29·858	30·130	29·389	·741	·266	72·0	85·4	—0·7	67·5	0	76·4	—0·4	17·9	98·3	46·3	52·0	30·1
	III.—Bengal.																				
5	Cox's Bazar	36	29·852	...	29·834	30·158	29·392	·766	·247	75·5	84·9	...	69·8	...	77·4	...	15·1	94·2	53·2	41·0	23·4
	Chittagong	87	29·800	+·009	29·834	30·130	29·333	·797	·256	74·1	84·8	0	69·3	—0·2	77·0	—0·1	15·5	92·0	50·6	41·5	24·8
	Noakhali	43	29·845	...	29·835	30·160	29·407	·773	·264	74·6	83·9	...	69·7	...	76·8	...	14·1	92·8	49·9	42·9	23·5
	Barisal	12	29·860	+·013	29·819	30·220	29·408	·812	·266	76·5	85·9	—0·1	70·1	—0·3	78·0	—0·2	15·8	95·3	51·6	43·7	26·2
	Narayanganj	26	29·839	+·006	29·814	30·189	29·397	·792	·277	75·3	86·2	—0·3	70·5	0	78·3	—0·1	15·7	95·5	52·3	43·2	25·2
	Mymensingh	63	29·831	+·016	29·837	30·163	29·397	·766	·263	72·5	84·8	+0·5	69·2	+0·8	77·0	+0·7	15·6	95·2	49·6	45·5	26·0
	Bogra	75	29·797	+·017	29·824	30·160	29·363	·797	·271	72·9	85·7	—0·7	68·3	+0·2	77·0	—0·3	17·4	101·2	48·7	52·5	29·6
	Dinajpur	123	29·734	+·009	29·815	30·110	29·286	·824	·283	71·6	85·3	—0·8	66·8	—0·3	76·1	—0·5	18·5	97·3	43·0	54·3	30·4
	Jalpaiguri	283	29·590	+·010	29·838	29·948	29·150	·798	·287	71·1	86·1	+1·4	66·5	+0·6	75·8	+1·0	18·5	96·9	45·9	51·0	29·3
	Saugor Island	25	29·833	+·009	29·803	30·193	29·264	·929	·311	77·6	84·9	—0·6	73·7	0	79·3	—0·3	11·2	93·2	53·7	40·0	22·6

N.B.—Elevations in italics indicate barometrical determinations.
† Mean of 3 months.
‡ ,, ,, 11 ,,
§ ,, ,, 2 ,,
‖ ,, ,, 10 ,,

B.

stations in India, etc., in the year 1912.

Wind Direction. Number of winds from									Wind Velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.						Heaviest rainfall during year.	STATION.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.		
28	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									I.—Burma.
21	39	114	63	51	23	33	22	10	4·9*	...	...	84	...	·825	...	5·8	...	143	...	...	170·13	...	...	4·36	Victoria Point.
332	...	8	8	8	4	6	...	...	2·6	1·4	+1·2	88	+ 3	·826	+·010	4·4	— 0·9	144	155·7	—11·7	168·73	163·22	+ 5·51	5·64	Mergui.
363	1	1	...	...	6	5	...	...	1·2*	1·1	+0·1	87	0	·795	—·006	4·1	— 1·0	130	142·0	—17·0	187·73	215·84	—28·11	9·35	Tavoy.
81	6	74	121	31	42	5	6	...	2·8	2·3	+0·5	89	+ 1	·795	—·005	5·2	+ 0·3	146	139·9	+ 6·1	184·66	187·96	— 3·30	7·90	Moulmein.
91	40	68	24	23	56	29	19	16	1·8	3·1	—1·3	86	— 2	·801	—·004	7·2	+ 2·2	134	121·4	+12·6	99·43	97·63	+ 1·80	3·44	Rangoon.
227	10	16	16	15	24	11	20	27	3·4	3·2	+0·2	87	— 1	·835	+·018	4·4	— 0·5	118	125·3	— 6·8	101·74	109·77	— 8·03	4·20	Bassein.
15	36	68	41	18	25	58	42	63	7·7	6·4	+1·3	81	+ 3	·854	+·037	4·7	— 0·7	120	112·9	+ 7·1	116·34	116·61	— 1·27	6·35	Diamond Island.
138	27	28	13	62	66	18	1	13	1·4	2·4	—1·0	85	— 1	·756	—·022	6·2	+ 1·0	119	114·3	+ 4·7	87·83	83·26	+ 5·57	4·03	Toungoo.
57	15	104	29	120	18	8	2	13	3·3*	...	...	84	...	·802	...	4·4	...	123	...	...	162·97	...	...	7·99	Kyaukpyu.
43	71	93	69	41	30	8	1	10	2·6	2·4	+0·2	89	+ 1	·792	+·013	4·7	— 0·4	135	123·3	+11·2	235·90	191·44	+44·46	8·19	Akyab.
175	10	19	4	39	93	20	2	4	2·1*	3·7	—1·6	79	+ 3	·751	+·043	5·6	+ 1·4	79	72·7	+ 6·3	45·65	37·34	+ 8·31	2·43	Thayetmyo.
87	17	113	2	112	80	23	1	117	2·9	6·3	—3·4	76	+ 1	·700	—·002	4·5	+ 1·1	51	56·3	— 5·3	35·31	34·33	+ 0·98	2·86	Minbu.
129*	22	3	...	107	75	1	...	35	2·8	4·2	—1·4	79	+ 1	·856	—·016	3·9	+ 1·2	61	62·4	— 1·4	34·08	38·65	— 4·57	2·02	Yamethin.
115	8	14	6	112	63	21	8	17	3·2	3·7	—0·5	73	— 2	·665	—·045	2·7	— 1·6	49	50·3	— 1·3	30·46	32·97	— 2·51	2·92	Mandalay. †
69	111	8	14	94	25	4	2	40	2·2	...	...	78	...	·711	...	5·4	...	44	44·1	— 0·1	29·78	32·18	— 2·45	2·68	Monywa.
222	6	31	10	5	17	31	7	7	2·1*	...	...	86	0	·551	—·010	7·2	+ 0·5	109	99·8	+ 9·2	56·28	62·25	— 5·97	2·46	Lashio.
													+ 4												
309	12	30	2	1	2	7	...	2	1·0	1·8	—0·8	91	...	·684	+·010	6·6	+ 1·5	95	99·6	— 4·6	63·56	71·69	+10·87	7·20	Bhamo.
291	6	25	14	9	13	4	...	4	1·0	...	...	87	...	·639	...	5·3	...	108	105·0	+ 3·0	86·85	76·14	+10·71	4·44	Myitkyina.
																									II.—Assam.
386	...	2	6	2	...	...	...	...	0·7	...	...	95	...	·676	...	5·0	...	135	134·8	+ 0·2	112·95	106·50	+ 6·35	5·45	Dibrugarh.
176	41	84	10	5	20	17	...	12	2·0	1·8	+0·2	91	— 4	·689	—·022	7·3	+ 0·2	123	129·1	— 6·1	97·23	96·27	+ 0·96	5·34	Sibsagar. ¶
44	18	123	128	5	9	13	19	1	2·4	...	...	87	...	·669	...	4·9	...	112	106·5	+ 5·5	71·93	69·46	+ 2·47	4·16	Tezpur. **
331	1	11	9	7	2	2	2	1	1·2	...	...	87	...	·700	...	6·1	...	103	93·8	+ 9·2	74·96	62·88	+12·06	4·20	Gauhati.
42	10	124	125	19	22	22	1	1	4·1	3·8	+0·3	86	— 1	·699	+·001	4·7	— 0·2	108	93·9	+14·1	130·69	94·62	+26·07	7·50	Dhubri.
268	5	37	32	16	2	5	...	1	1·3	1·7	—0·4	88	0	·720	—·007	3·4	— 3·0	146	136·6	+ 9·4	127·47	124·56	+ 2·91	7·33	Silchar.
																									III.—Bengal.
3	25	69	90	146	27	6	4	6	3·9*	...	...	87	...	·778	...	4·6	...	113	...	...	131·10	...	...	7·32	Cox's Bazar.
125	2	85	59	91	2	1	...	1	1·6	3·6	—2·0	86	— 1	·746	—·017	4·7	— 0·3	102	93·6	+ 8·4	103·55	98·23	+ 5·32	4·42	Chittagong.
65	60	37	25	97	39	30	6	7	2·8	...	...	88	...	·771	...	4·1	...	123	112·5	+10·5	106·23	120·30	—14·07	8·32	Noakhali.
279	8	7	8	11	34	16	1	2	0·5	2·3	—1·8	85	— 1	·785	—·017	4·9	+ 0·1	115	101·3	+13·7	97·32	79·72	+17·60	9·24	Bársal.
145	13	8	45	50	55	18	15	19	2·1	3·6	—1·5	85	— 1	·762	—·016	5·5	+ 0·2	104	91·0	+13·0	85·18	70·45	+14·73	5·72	Narayanganj.
232	3	7	53	50	12	1	...	8	1·2	2·0	—0·8	87	— 1	·733	—·006	5·5	+ 0·7	109	105·4	+ 3·6	111·70	93·04	+18·66	5·82	Mymensingh.
332	9	13	59	9	24	13	1	6	0·8	2·2	—1·4	85	+ 1	·720	—·001	5·0	+ 1·0	100	84·2	+15·8	88·93	67·90	+21·03	5·62	Bogra. ¶
65	19	62	102	27	16	13	41	22	1·9	2·6	—0·7	87	+ 4	·708	+·014	3·9	— 0·3	95	79·1	+15·9	93·86	68·92	+24·94	5·15	Dinajpur.
261	3	37	11	25	1	3	...	5	1·3	...	...	85	— 1	·681	—·005	3·0	— 0·8	111	103·2	+ 8·8	116·16	122·42	— 6·26	5·27	Jalpaiguri.
...	62	67	14	13	91	83	16	21	9·0	8·6	+0·4	87	+ 1	·835	+·002	4·9	— 0·8	77	80·3	— 3·3	55·60	70·21	—14·61	4·10	Saugor Island.

* Uncorrected for scale error.
† Wind observations for 364 days.
¶ " " " 365 "
** " " " 350 "

TABLE

(2) *Abstract of observations taken at 8 hrs. at 222*

Number of sub-division.	Station.	Elevation of bar-eistern above sea-level, in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and to 32° and gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	III.—Bengal— *concld.*																				
	Midnapore	149	29·898	...	29·797	30·085	29·163	·922	·311	76·2	89·7	...	70·5	...	80·1	...	19·3	106·3	48·7	57·6	32·7
	Calcutta	21	29·939	+·009	29·807	30·217	29·313	·904	·307	75·3	87·7	+1·1	71·1	+0·5	79·3	+0·3	16·5	102·1	52·0	50·1	28·2
	Jessore	33	29·839	+·017	29·830	30·214	29·375	·839	·292	75·2	88·6	−1·2	69·5	−0·4	78·1	−0·8	17·0	98·5	45·2	53·3	28·3
	Burdwan	99	29·758	+·008	29·806	30·153	29·289	·864	·309	74·7	89·1	0	70·4	−0·2	79·7	−0·1	18·6	103·9	51·3	57·6	31·2
	Berhampore	67	29·794	+·010	29·812	30·181	29·320	·861	·305	73·5	87·2	−0·6	69·6	+0·1	78·4	−0·2	17·6	107·6	51·7	55·9	29·2
	IV.—Bihar and Orissa.																				
6	Balasore	50	29·809	+·011	29·905	30·174	29·222	·952	·320	75·6	88·9	+0·3	70·8	+0·3	79·8	+0·3	18·0	107·4	49·1	58·3*	31·7
	Hukitala (False Point).	20	29·839	+·012	29·804	30·109	29·244	·865	·319	80·2*	87·5*	+0·5*	74·4*	+0·2*	81·0*	+0·3*	13·1*	105·2*	47·6	58·1	26·8*
	Cuttack	80	29·788	+·017	29·810	30·153	29·206	·947	·300	76·7	90·6	−0·9	72·5	0	81·5	−0·4	18·0	113·4	52·2	61·2	30·1
	Puri	24	29·839	...	29·803	30·189	29·285	·904	·297	77·9	86·6	...	74·3	...	80·4	...	12·3	95·1	55·0	39·5	23·0
	Angul	455	29·406	...	29·820	29·752	28·869	·883	·289	75·8	90·3	...	69·5	...	79·9	...	20·8	114·1	47·0	67·1	34·1
	Sambalpur	486	29·379	+·011	29·820	29·738	28·859	·879	·284	76·0	90·2	−0·8	70·5	+0·5	80·3	−0·2	19·7	115·1	44·6	70·5	32·9
7	Chaibasa	738	29·105	+·009	29·801	29·460	28·625	·835	·284	72·5	90·0	−0·4	68·0	−0·4	79·0	−0·4	22·0	111·1	42·3	68·8	35·1
	Ranchi	2,128	27·737	+·021	29·798	28·033	27·288	·745	·274	71·0	84·3	+0·3	65·9	+0·6	75·3	+0·5	18·9	106·2	44·9	61·3	31·9
	Purulia	816	29·029	...	29·810	29·396	28·575	·821	·296	72·6	89·6	...	67·9	...	78·8	...	21·7	111·0	48·1	62·9	35·7
	Daltonganj	730	29·123	...	29·828	29·502	28·655	·847	·288	70·7	90·4	...	65·7	...	78·1	...	24·7	113·6	39·0	74·6	39·7
8	Purnea	134	29·711†	+·019†	29·802†	30·122	29·275	·847	·301†	72·5	85·2	−1·5	65·7†	0†	75·1†	−0·7†	18·8†	98·6	42·2	56·4	30·7†
	Monghyr	155	29·699	...	29·810	30·095	29·240	·855	·294	75·0	86·9	...	68·2	...	77·5	...	18·7	104·2	49·0	54·3	30·7
	Darbhanga	165	29·687	+·009	29·810	30·079	29·247	·832	·289	72·8	86·4	+0·5	65·9	−2·8	76·1	−1·1	20·5	102·6	45·2	57·4	32·2
	Pusa	188	29·658	...	29·781	30·034	29·213	·821	·290	72·4	87·7	...	65·3	...	76·5	...	22·4	105·7	44·1	61·6	34·7
	Patna	183	29·661	0	29·803	30·050	29·214	·836	·286	74·6	86·5	−1·3	68·4	−0·1	77·4	−0·7	18·1	107·0	42·7	64·3	30·5
	Buxar	239	29·596	...	29·797	29·989	29·137	·852	·286	72·9	89·4	...	67·8	...	78·6	...	21·6	110·5	45·6	64·9	36·2
	Gaya	372	29·470	+·005	29·799	29·963	29·007	·856	·290	75·5	90·7	+0·7	68·8	0	79·7	+0·3	21·9	112·4	46·7	65·7	35·5
	Naya Dumka	489	29·365	+·025	29·816	29·739	28·907	·832	·293	73·5	87·8	+0·2	67·5	−0·3	77·5	−0·1	20·1	106·9	47·0	59·9	33·4
	V.—United Provinces of Agra and Oudh.																				
9	Gorakhpur	257	29·579	+·010	29·799	29·958	29·112	·846	·286	72·6	87·3	−0·7	63·7	−3·7	75·6	−2·2	23·5	106·6	44·8	61·8	35·3
	Benares	267	29·578	+·014	29·803	29·974	29·090	·884	·291	75·5	90·1	+0·6	66·4	−0·5	78·3	0	23·7	112·5	43·1	69·4	38·8
	Allahabad	309	29·535	+·012	29·805	29·942	29·050	·892	·301	74·6	90·7	+0·5	68·4	−0·4	78·5	+0·1	24·3	115·6	40·5	75·1	39·4
	Cawnpore	416	29·414	+·010	29·795	29·912	29·034	·878	·297	73·2	90·2	+0·2	66·3	−0·1	78·2	0	23·9	113·2	40·9	72·3	39·8
	Lucknow	368	29·472	+·016	29·805	29·871	28·994	·877	·293	73·8	89·5	−0·2	66·1	+0·5	77·8	+0·1	23·4	113·0	42·6	69·4	38·1
	Bahraich	401	29·432	+·004	29·792	29·790	29·039	·851	·289	72·1	87·2	−1·0	65·6	−0·1	76·4	−0·6	21·6	108·6	43·5	65·1	35·1
10	Jhansi	824	29·039	+·008	29·819	29·420	28·555	·865	·295	76·5	91·3	+0·2	67·3	−1·7	79·3	−0·8	23·9	113·5	41·5	76·0	40·2
	Agra	556	29·233	+·006	29·807	29·701	28·816	·885	·315	74·9	91·1	+0·4	68·0	+0·4	79·5	+0·4	23·2	117·5	44·5	73·0	38·8
	Mainpuri	516	29·310	+·010	29·797	29·709	28·842	·867	·306	71·7	89·9	+0·1	65·4	−0·1	77·7	0	24·5	117·3	41·1	76·2	40·2
	Bareilly	568	29·252	+·008	29·794	29·639	28·798	·842	·297	71·5	87·9	+0·3	65·0	+0·3	76·4	+0·3	22·9	111·3	39·5	71·8	38·3
	Moorkee	899	28·942	+·033	29·828	29·314	28·503	·811	·291	70·0	85·3	−1·8	62·7	+0·1	74·0	−0·9	22·6	111·5	37·4	74·1	37·9

N. B.—Elevations in italics indicate barometrical determinations.

* Mean of 9 months.
† „ „ 11 „

B.—contd.

stations in India, etc., in the year 1912.

Wind direction. Number of winds from									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.						Heaviest rainfall during year.	Station.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.		
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									III.—Bengal —*concld.*
51	47	47	26	59	64	27	10	32	1·1	...	...	80	...	·746	...	3·5	...	54	60·2	+3·8	60·20	56·12	+2·08	3·13	Midnapore. (*c*)
39	23	25	29	44	40	98	5	64	3·3*	3·2	+0·1	65	+ 2	·774	+·006	4·6	+0·4	90	85·1	+4·9	56·62	61·61	—4·99	3·72	Calcutta.
176	16	12	20	60	42	14	13	13	3·4	3·2	+0·2	83	— 3	·759	—·032	4·1	—0·6	81	88·8	—7·8	75·13	65·79	+9·34	3·26	Jessore.
96	45	31	21	24	24	56	23	46	2·7	2·8	—0·3	80	+ 4	·727	+·021	4·9	+0·4	75	76·8	—1·8	51·33	58·00	—6·67	3·78	Burdwan.
128	26	19	54	32	61	31	5	10	1·7	2·4	—0·7	62	— 3	·707	—·036	4·6	—0·1	76	76·0	0	46·87	55·27	—8·40	3·27	Berhampore.
																									IV.—Bihar and Orissa.
69	62	15	10	2	37	184	13	45	2·5	3·5	—1·0	76	— 7	·709	—·076	4·0	—0·9	67	77·4	—10·4	54·38	61·72	—7·34	4·74	Balasore.
18	23	11	10	15	28	114	64	82	7·1	6·8	+0·3	83	— 2	·856	+·030	5·1	—0·1	61	72·0†	—11·0	57·11	63·98	—6·87	6·07	Hukitala (False Point.) †
158	4	18	11	4	27	61	58	5	1·9*	2·1	—0·2	79	+ 1	·750	+·011	4·4	+0·1	70	74·1	—4·1	53·96	59·30	—5·34	3·99	Cuttack.
17	96	29	3	5	17	122	45	33	7·3	...	...	84	...	·815	...	4·7	...	73	60·3	+12·7	69·20	53·57	+15·73	4·33	Puri.
26	17	36	9	32	22	8	58	146	4·6	...	...	76	...	·699	...	4·1	...	70	72·0	— 2·0	45·52	47·93	—2·41	3·85	Angul.
8	46	74	17	28	52	200	30	25	3·6	2·6	+1·0	73	+ 2	·652	+·003	4·4	+0·5	64	74·9	—10·9	59·68	59·54	—15·86	5·54	Sambalpur.
147	4	16	8	2	23	125	36	5	2·0	1·3	+0·7	78	+ 3	·644	—·014	4·2	+0·6	83	74·9	+ 7·1	62·46	52·62	+ 9·84	8·45	Chaibasa.
59	20	8	17	22	36	45	75	85	5·1	4·6	+0·5	67	0	·523	—·016	3·7	+0·2	71	90·4	— 9·4	47·70	56·67	— 8·97	4 33	Ranchi.
165	7	13	16	13	19	12	74	47	2·1	...	...	76	...	·638	...	3·0	...	70	76·1	— 6·1	48·76	53·15	— 4·39	3·05	Purulia
311	9	13	54	26	7	29	6	5	2·4	...	...	75	...	·591	...	2·5	...	53	63·5	—10·5	30·90	42·07	—11·17	3·04	Daltonganj. ‡
174	4	50	65	26	3	18	34	10	2·2†	2·3	—0·1	84	0	·608	+·009	2·8	—0·8	76	70·1	+ 5·9	59·78	51·86	+ 7·92	5·25	Purnea. ‡
43	5	18	115	38	2	35	89	21	4·3	...	...	76	...	·690	...	3·1	...	62	...	...	46·22	...	...	4·62	Monghyr.
169	...	2	147	2	1	7	45	25	2·2	2·9	—0·7	83§	+ 6	·727	+·046	2·7	—0·2	49	59·3	—10·3	39·37	50·37	—11·00	5·63	Darbhanga.
82	6	33	83	72	13	30	21	11	2·9	...	...	81	...	·673	...	2·9	...	57	...	...	41·92	...	...	3·46	Pusa. §
76	4	3	134	19	12	49	65	2	3·9	2·7	+1·2	74	+ 2	·674	+·021	2·8	—0·6	53	56·1	— 4·1	36·43	47·03	—11·60	3·06	Patna.
25	4	12	110	26	30	91	59	8	3·7	...	...	72	...	·607	...	3·1	...	44	53·3	— 9·3	31·62	41·12	— 9·50	3·91	Buxar. †
135	3	52	10	19	45	41	58	3	2·1	2·7	—0·6	70	— 1	·546	+·009	2·7	—1·0	46	67·9	—11·9	24·03	48·57	—23·54	3·65	Gaya.
278	3	5	32	24	16	4	4	9	1·4	...	...	72	—12	·629	...	3·0	...	60	77·8	—17·8	49·46	55·73	— 6·27	3·15	Naya Dumka.
																									V.—United Provinces of Agra and Oudh.
137	13	66	64	11	1	10	59	17	1·6	1·7	—0·1	75	0	·632	—·010	1·3	—1·4	47	57·3	—10·3	43·96	50·77	— 6·81	11·20	Gorakhpur.
100	6	13	41	53	11	68	45	29	2·2	2·7	—0·5	67	— 7	·601	—·024	2·7	—0·7	37	52·0	—15·0	31·96	39·67	— 7·01	3·35	Benares.
76	6	31	55	10	9	34	119	26	2·8	3·8	—1·0	63	— 4	·552	—·042	3·3	—0·2	45	48·8	— 3·8	28·42	39·16	—10·74	3·31	Allahabad.
114	20	13	40	24	21	56	66	14	2·2	2·7	—0·5	67	0	·570	—·018	1·5	—1·4	43	54·4	— 3·4	32·66	36·06	— 3·40	3·23	Cawnpore.
216	2	13	49	13	11	14	43	5	1·8	2·4	—0·4	67	— 3	·591	—·001	2·3	—1·0	46	47·7	— 3·7	29·14	38·05	— 8·91	2·40	Lucknow.
55	16	18	76	66	11	84	50	40	2·3	2·3	—0·1	72	— 3	·591	—·050	2·4	—0·4	51	50·6	+ 0·4	33·85	44·32	— 5·97	4·42	Bahraich.
74	10	25	14	13	12	121	65	33	3·0	2·4	+0·6	54	— 1	·475	—·038	4·9	+2·5	42	47·7	— 5·7	34·95	37·57	— 2·62	5·84	Jhansi.
133	13	22	30	18	24	52	51	23	3·0	3·3	—0·3	58	— 3	·515	—·018	3·7	—0·1	29	37·9	— 8·9	25·91	27·32	— 1·41	4·69	Agra.
65	23	14	40	43	18	38	75	56	1·5	1·4	+0·1	67	+ 1	·544	—·010	1·4	—1·9	44	38·1	+ 5·9	35·77	27·42	+ 8·35	2·86	Mainpuri.
324	...	1	27	3	...	2	9	1	0·5	2·0	—1·5	74	+ 3	·605	+·032	2·9	—0·1	42	47·8	+ 5·8	42·02	44·96	— 2·94	6·14	Bareilly.
268	...	13	6	65	1	3	...	30	1·9	1·9	0	72	+ 1	·537	+·014	2·6	—0·5	40	47·6	— 7·6	43·42	42·20	+ 1·12	7·40	Roorkee.

* Uncorrected for scale error.

† Wind observations for 365 days.
‡ " " " 364 "
§ " " " 363 "
‖ " " " 300 "
Mean of 11 months.
** " " 9 "

(*c*) Wind observations for 363 days.

TABLE

(2) *Abstract of observations taken at 8 hrs. at 222*

Number of sub-division.	Station.	Elevation of bar-cistern above sea-level, in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	VI.—Punjab.																				
11	Delhi	718	29·114	+·016	29·811	29·502	28·667	·835	·306	72·3	88·3	—0·7	67·2	—0·2	77·7	—0·5	21·1	113·0	43·8	69·2	36·7
	Sirsa	662	29·164	+·015	29·807	29·570	28·689	·882	·326	72·2	91·1	—0·8	64·5	+0·4	77·8	—0·2	26·7	119·8	37·0	82·8	44·1
	Patiala	*878*	28·989		29·794	29·379	28·536	·843	·310	69·8	87·2		64·3*		75·7*		22·8*	113·4	38·8	74·6	35·2
	Ambala	892	28·924	+·016	29·803	29·300	28·464	·836	·299	70·3	89·3	+1·4	63·3	—0·1	76·2	+0·6	26·4	116·5	35·9	80·6	42·4
	Ludhiana	812	29·013	+·021	29·814	29·401	28·544	·857	·306	69·7	89·3	0	64·3	+0·6	76·8	+0·3	24·0	117·1	40·0	77·1	40·4
	Lahore	702	29·114	+·012	29·806	29·510	28·612	·898	·328	69·6	90·2	—0·5	63·2	+2·3	76·7	+0·9	27·0	118·4	37·2	81·2	43·0
	Sialkot	830	28·991	+·020	29·815	29·385	28·479	·906	·326	71·3	87·0	—0·7	61·1	—1·5	74·0	—1·1	25·9	115·5	34·0	81·5	42·8
	Rawalpindi	1,674	28·166	+·011	29·832	28·528	27·674	·854	·330	65·5	85·1	+0·8	57·7	+0·1	71·4	+0·5	27·4	117·4	30·9	86·5	45·1
12	Khushab	612	29·215	+·021	29·813	29·450	28·681	·969	·355	73·1	90·2	+0·6	56·1	+0·5	77·2	+0·6	26·1	116·4	36·4	80·0	45·2
	Montgomery	558	29·256	+·013	29·795	29·687	28·746	·941	·353	72·8	91·4	—0·9	64·4	0	77·9	—0·4	27·0	120·4	37·0	83·4	45·2
	Multan	420	29·403	+·008	29·796	29·372	28·858	1·014	·363	73·6	93·0	+1·1	66·6	+1·3	79·8	+1·2	26·4	120·3	39·5	80·8	43·5
	VII.—North-West Frontier Province.																				
14	Peshawar	1,113	28·728	—·003	29·347	29·134	28·197	·937	·338	66·4	86·6	+1·0	59·5	+0·3	73·1	+0·6	27·1	119·2	32·4	86·8	44·8
	Dera Ismail Khan	690	29·237	—·004	29·815	29·704	28·655	1·049	·374	69·2	89·1	—1·3	62·6	+0·1	75·8	—0·6	26·5	116·9	35·6	81·3	44·7
	VIII.—Sind.																				
15	Jacobabad	186	29·634	+·003	29·783	30·111	29·098	1·013	·342	75·9	97·2	+1·6	66·5	+1·3	81·9	+1·5	30·7	126·1	37·8	88·3	47·8
	Hyderabad	96	29·760	+·006	29·799	30·156	29·285	·871	·301	75·4	94·3	+0·9	68·8	+0·5	81·6	+0·7	25·5	129·5	45·0	75·5	45·3
	Karachi	13	29·865	+·012	29·829	30·233	29·398	·835	·274	75·7	85·3	+1·2	73·1	+1·3	79·7	+1·3	13·3	102·5	55·0	47·5	34·3
	IX.—Rajputana.																				
17	Bikaner	771	29·052	+·007	29·799	29·441	28·623	·818	·310	74·6	93·3	+1·5	68·4	—1·2	80·9	+0·1	24·9	120·0	39·0	81·0	43·0
	Jodhpur	790	29·071	+·008	29·821	29·417	28·653	·764	·295	74·3	93·1	0	67·7	—0·6	80·4	—0·3	25·4	120·0	45·8	74·2	42·4
18	Jaipur	1,431	28·424	+·008	29·824	28·792	28·012	·780	·284	74·0	91·3	+0·4	66·0	+0·4	78·6	+0·4	25·3	116·2	40·1	76·1	42·3
	Ajmer	1,611	28·254	+·008	29·839	28·597	27·841	·756	·274	70·3	88·2	—0·6	67·4	+3·0	77·8	+1·2	20·8	114·4	41·7	72·7	36·7
	Kotah	812?	29·032	+·008	29·805	29·391	28·569	·822	·282	77·2	92·6	—0·1	69·9	—0·5	81·3	—0·3	22·7	117·6	45·6	72·0	39·5
	X.—Bombay.																				
19	Deesa	466	29·409	+·008	29·836	29·714	28·966	·748	·240	75·3	95·9	+2·0	67·0	0	81·4	+1·0	28·8	121·8	43·9	77·9	43·6
	Bhuj	334	29·634	+·011	29·880	29·885	29·003	·822	·240	75·5	92·5	+1·1	68·4	—0·3	80·4	+0·4	24·1	116·0	45·0	71·0	38·9
	Jamnagar	61	29·835		29·842	30·128	29·379	·749	·231	78·6	90·8		67·9		79·3		22·9	103·6	46·7	56·9	35·5
	Dwarka	37?	29·862	0	29·845	30·158	29·397	·761	·225	77·1	85·4	+1·3	73·8	+1·3	79·6	+1·3	11·6	97·3	58·7	40·6	23·4
	Rajkot	429	29·456	+·009	29·840	29·720	29·028	·692	·221	75·2	93·4	+0·4	66·1	0	79·8	+0·2	27·3	114·6	42·3	72·3	43·1
	Veraval	18	29·876	+·006	29·837	30·154	29·459	·675	·215	76·4	85·2	0	71·6	+0·6	78·4	+0·3	13·6	102·1	52·5	49·6	27·7
	Bhavnagar Para	55	29·843	—·017?	29·845	30·124	29·408	·716	·234	76·4	94·3	+1·4	69·2†	—0·6†	81·8†	+0·5†	25·2†	116·0	47·0	69·0	39·5†
	Surat	39	29·864	+·008	29·846	30·131	29·438	·693	·213	77·4	92·4	+0·8	70·7	+1·3	81·5	+1·1	21·6	109·9	53·1	56·8	34·6
	Ahmadabad	163	29·713	—·006	29·827	30·006	29·272	·734	·230	76·9	95·4	+1·4	69·6*	—0·1*	81·0*	+0·6*	29·8*	117·6	52·7	64·9	35·9*
16	Bombay	37	29·873	0	29·851	30·114	29·528	·586	·190	78·6	87·3	+1·5	75·8	+0·9	81·5	+1·2	11·5	95·5	64·5	31·0	19·7
	Ratnagiri	110	29·794	+·001	29·843	29·967	29·488	·509	·170	78·1	87·5	0	73·4	+0·4	80·5	+0·2	14·1	97·8	60·8	36·9	24·2
	Goa	192	?	?	?	?	?	?	?	77·0	84·8	—1·2	74·9	+0·4	79·8	—0·4	9·9	92·1	69·6	23·5	19·3

N.B.—Elevations in *italics* indicate barometrical determinations.

* Mean of 9 months.

† Mean of 11 months.

B.—contd.

Stations in India, etc., in the year 1912.

Wind direction. Number of winds from									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.						Heaviest rainfall during year.	Station.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Mean humidity at 8 hours of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.		
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									VI.—Punjab.
44	13	19	43	41	11	19	127	49	2·9†	2·5	+0·4	64	+6	·530	+·040	2·9	−0·5	31	37·1	−6·1	33·43	27·52	+ 5·91	6·79	Delhi.
111	31	16	34	26	50	50	32	16	3·3‡	3·7‡	+0·1	57	−3	·463	−·024	2·1	−1·2	27	23·2	+3·8	14·89	13·88	+ 1·01	2·15	Sirsa.
49	22	9	37	94	13	3	35	102	4·4			68		·512		2·1		36	30·5	−0·5	22·51	25·46	− 2·95	3·55	Patiala. (a)
89	56	2	70	62	14	3	25	47	3·1	1·5	+1·6	65	−9	·493	−·065	2·3	+0·1	37	42·3	−5·3	20·50	30·19	− 0·69	4·30	Ambala.
278	9	10	3	39	7	1	11	3	0·6	1·4	−0·8	62	−6	·460	−·056	2·4	−1·2	28	36·7	−10·7	24·45	29·05	− 4·60	3·67	Ludhiana.
173	32	11	27	51	21	7	20	25	1·6	1·8	−0·2	65	0	·493	−·010	2·7	0·	25	27·7	−2·7	14·70	19·69	− 4·99	3·36	Lahore.
172	31	39	66	29	5	7	7	20	1·1	1·5	−0·4	71	+5	·507	−·003	2·3	−0·2	33	40·4	−8·4	20·22	31·66	−11·44	2·19	Sialkot.
196	64	13	15	9	21	8	23	17	1·3	1·6	+0·2	63	−5	·431	−·029	3·5	+0·3	30	43·0	−9·0	21·88	34·29	−12 41	2·63	Rawalpindi.
128	7	56	100	15	25	14	15	6	3·5	3·6	−0·1	50	−5	·414	−·034	3·2	+1·0	28	23·2	+4·8	12·90	14·44	− 2·44	1·14	Khushab.
70	33	30	46	60	56	40	13	18	4·4	4·3	+0·1	49	−8	·397	−·078	1·9	−0·3	17	18·2	−1·2	8·01	10·46	− 2·45	1·88	Montgomery.
329	59	13	1	22	20	12		4	0·9	1·5	−0·6	58	−2	·495	−·020	1·6	−0·1	14	19·2	+1·8	5·50	6·73	+ 1·77	1·83	Multán.
																									VII.—North-West Frontier Province.
197	27	10	7	9	41	28	24	23	1·6	2·4	−0·8	63	−1	·483	−·023	3·1	+0·1	25	25·1	−0·1	10·85	13·29	− 2·44	1·10	Peshawar.
224	21	55	1	17	5	5	2	35	1·1	1·3	−0·2	70	+6	·562	+·046	2·1	+0·1	12	16·5	−4·5	8·22	9·37	− 1·15	4·05	Dera Ismail Khan. (b)
																									VIII.—Sind.
203	6	24	11	22	12	5	1	12	2·1	2·5	−0·4	60	+5	·391	+·063	1·2	−0·8	3	7·6	−4·6	1·41	3·65	− 2·24	0·70	Jacobábad.
27	75	8		8	89	113	9	38	5·3	8·1	−2·8	60	+2	·556	+·027	2·3	−0·4	9	9·6	−0·6	5·39	7·11	− 1·72	1·99	Hyderabad.
22	35	68	12	3	1	89	134	31	9·2	9·2	0	72	−4	·693	+·015	3·1	−0·5	4	9·2	−5·2	3·17	7·78	− 4·61	1·87	Karachi.
																									IX.—Rajputana.
62	9	28	32	47	48	61	60	16	4·4	4·3	+0·1	47	−6	·441	−·058	2·1	−0·5	17	19·4	−2·4	8·35	11·49	− 3·14	1·50	Bikaner.
64	20	103	9	2	26	106	32	4	3·0			45	−3	·416		2·7		20	18·5	+1·5	17·75	13·34	+ 4·41	4·01	Jodhpur.
99	40	55	39	13	4	12	53	52	3·6*	3·2	+0·4	53	−5	·462	−·032	2·9	−0·3	33	35·5	−3·5	31·75	24·07	+ 7·68	4·45	Jaipur.
196	4	13	4	7	6	59	60	22	3·9	3·6	+0·3	61	−2	·475	−·027	2·5	−0·2	26	30·1	−4·1	13·87	21·09	− 7·22	1·81	Ajmer.
202	13	15	2	7	2	33	53	40	1·7			50	+1	·462		2·7		31	35·0	−4·0	24·66	28·02	− 3·46	2·58	Kotah.
																									X.—Bombay.
21	17	53	53	9	23	73	40	32	6·9†	7·5	−0·6	57	+ 1	·534	+·010	3·1	−0·3	32	28·3	+3·7	23·8 0	24·10	−0·30	5·80	Deesa. (c)
61	14	13	1	9	8	62	127	76	6·9	8·1	−1·2	63	− 1	·589	−·022	5·5	+0·6	19	16·9	+2·1	20·26	14·15	+6·11	4·58	Bhuj.
7	11	84	33	...	9	104	70	48	9·6†	...	...	67	...	·686	...	1·9	...	33	20·8	+12·2	29·90	19·28	+10·62	4·60	Jamnagar.
11	57	47	15	3	10	81	86	56	8·9	...	...	78	+ 1	·757	...	2·4	...	20	16·9	+3·1	22·31	14·38	+8·43	5·61	Dwarka.
50	19	30	23	7	11	85	86	55	7·4	6·6	+0·8	63	− 4	·583	−·041	3·6	+0·6	43	30·9	+12·1	32·11	26·54	+5·57	4·11	Rajkot.
125	67	23	4	3	...	35	80	29	4·8	6·1	−1·3	73	+ 3	·689	+·023	3·3	−0·6	95	24·2	+0·8	27·84	17·95	+9·89	7·80	Veraval.
90	24	8	4	...	11	67	85	77	2·7	7·3	−4·6	62	− 7	·599	−·060	3·4	+0·1	36	29·8	+6·2	39·55	20·66	+18·89	6·77	Bhavnagar Pats.
18	50	47	44	25	53	67	35	25	3,9	5·5	−1·6	74	+ 3	·721	+·041?	3·2	−0·2	59	46·1	+12·9	57·49	41·12	+16·37	6·05	Surat. (a)
56	12	93	13	13	31	77	19	58	3·8	3·6	+0·2	61	+ 1	·604	+·022	2·6	−1·0	43	34·1	+8·9	38·72	29·62	+9·10	5·71	Ahmadabad. (e)
2	22	83	85	38	16	39	64	17	6·8*	8·6	−1·8	78	0	·779	+·008	4·5	+0·3	61	73·3	−12·3	54·05	71·88	−17·83	6·47	Bombay.
43	32	40	30	65	17	47	22	20	6·8	6·2	+0·6	73	+ 1	·724	−·003	4·2	+0·3	90	92·7	−2·7	99·91	101·22	−1·31	9·60	Ratnagiri. (d)
5	25	70	149	17	9	30	33	26	5·7	4·8	+0·9	83	+ 5	·765	−·013	5·7	+1·5	105	97·8	+7·2	114·68	98·68	+16·00	4·26	Goa. (c)

* Uncorrected for scale error.

† —Mean of 11 months.

‡ — „ „ 6 „

(a) Wind observations for 364 days.
(b) „ „ „ 365 „
(c) „ „ „ 362 „
(d) „ „ „ 315 „
(e) „ „ „ 320 „

TABLE

(2) *Abstract of observations taken at 8 hrs. at 222*

Number of sub-division.	Station.	Elevation of bar-cistern above sea-level, in feet.	Pressure 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and mean local gravity, at 45° lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	X.—Bombay— *concld.*																				
	Marmagao	60	29·883	+·002	29·957	30·062	29·635	·427	·161	78·2	85·9	−0·8	74·6	−0·4	80·3	−0·4	11·3	94·0	66·7	28·3	19·2
	Karwar	44	29·888	+·009	29·966	30·090	29·660	·430	·165	76·0	85·8	−0·4	72·7	0	79·2	−0·2	13·1	93·7	58·5	35·2	22·2
26	Malegaon	1,480	28·464	+·006	29·846	28·741	28·06 8	·673	·203	76·1	94·5	+2·9	66·1	+1·0	80·3	+1·9	28·5	113·4	47·1	66·3	42·3
	Ahmadnagar	2,154	27·759	+·009	29·832	27·992	27·411	·581	·185	74·2	91·7	+3·9	64·9	+1·5	78·3	+2·3	26·8	110·1	44.5	65·6	40·4
	Poona	1,840	28·063	+·001	29·878	28·202	27·712	·585	·185	70·2	90·7	+1·3	65·1	+0·3	77·9	+0·8	25·6	106·5	47·6	58·7	38·0
	Sholapur	1,330	28·313	+·004	29·942	28·559	28·005	·554	·183	75·3	93·6	+0·7	69·1	+1·2	81·4	+0·9	24·5	113·3	50·1	63·2	37·7
	Bijapur	1,946	27·961	+·006	29·824	28·190	27·696	·494	·163	75·5	92·0	+1·1	63·4	+1·0	80·2	+1·5	28·5	110·2	50·2	59·4	35·3
	Belgaum	2,563	27·381	+·008	29·853	27·592	27·115	·477	·159	71·8	84·6	+0·2	63·6	−0·4	74·1	−0·1	21·0	99·3	49·5	49·8	32·0
	XI.—Central India.																				
20	Neemuch	1,626	28·246	+·007	29·636	28·573	27·803	·770	·246	72·0	89·8	+0·9	54·2	+0·3	77·3	+0·6	24·9	116·4	41·0	75·4	41·1
	Indore	1,853	28·058	+·016	29·830	28·364	27·603	·761	·224	74·2	89·1	+1·2	64·5	+0·9	76·9	+1·0	24·7	112·1	45·1	69·0	39·4
21	Nowgong	754	29·102	+·017	29·825	29·468	29·034	·854	·256	73·8	88·9	−0·7	65·6	0	77·3	−0·3	23·3	117·0	41·0	76·0	38·3
	Sutna	1,041	28·803	+·013	29·814	29·149	28·317	·832	·260	73·6	89·1	+1·0	65·7	+0·1	77·4	+0·6	23·4	114·3	40·2	74·1	39·1
	XII.—Central Provinces.																				
22	Buldana	2,138	27·733		29·788?	28·026	27·253	·673	·200	75·9	89·5		63·9		79·2		20·6	106·3	50·6	58·2	32·7
	Akola	925	28·958	+·014	29·840	29·273	28·538	·735	·210	76·7	95·3	+2·4	68·1	+1·0	80·0	+1·7	27·2	116·7	41·5	75·2	43·7
	Amraoti	1,215	28·661	+·015	29·806	28·969	28·230	·740	·216	76·9	93·2	+1·2	70·5	+1·6	81·8	+1·4	22·7	115·8	51·8	64·0	38·3
23	Khandwa	1,045	28·935	+·013	29·840	29·147	28·369	·778	·229	74·0	93·7	+1·9	67·3	+0·6	80·8	+1·4	26·4	116·2	43·6	72·6	41·9
	Hoshangabad	1,006	28·873	+·012	29·843	29·219	28·399	·820	·243	73·2	92·6	+1·6	67·0	0	79·2	+0·5	25·6	116·1	43·6	72·7	39·0
	Saugor	1,807	28·045	+·003	29·902	28·376	27·583	·793	·262	72·6	88·7	+0·7	67·1	+1·0	77·9	+0·8	21·5	113·3	44·6	68·7	39·1
	Jubbulpore	1,327	28·513	−·003	29·807	28·865	28·022	·843	·267	71·5	88·9	+0·5	66·2	+0·8	77·1	+0·6	22·7	113·3	39·8	73·5	36·4
	Seoni	2,033	27·843	+·019	29·831	28·162	27·367	·795	·240	73·9	87·7	−0·1	63·9	−0·9	75·8	−0·5	23·7	112·1	41·5	70·6	37·7
	Nagpur	1,017	28·852	+·017	29·825	29·175	28·384	·791	·236	76·5	92·7	+0·7	69·2	+0·3	80·9	+0·5	23·5	117·6	44·3	73·3	38·7
24	Pendra	2,123?	27·824		29·797	28·145	27·387	·758	·287	73·2	86·3		65·3		75·8		21·0	109·3	43·7	65·6	34·5
	Raipur	970	28·895	+·020	29·823	29·247	28·433	·814	·259	75·1	90·8	+0·1	69·9	+0·7	80·3	+0·4	20·7	116·7	48·6	68·1	33·7
	Chanda	634	29·231	+·002	29·818	29·556	28·827	·729	·231	76·5	92·8	0	68·8	+0·2	80·8	+0·1	24·1	119·5	43·5	76·0	39·3
	Jubbulpur	1,813	28·073		29·829	28·345	27·651	·694	·231	73·1	88·3		66·1		77·2		22·3	115·2	42·1	73·1	35·6
	XIII.—Hyderabad.																				
27	Aurangabad	1,905	28·007	−·006	29·846	28·264	27·644	·620	·189	76·2	91·2*	+0·6*?	65·6†	+1·7†	76·02	+1·2†?	24·8	111·9	47·7	64·2	37·2
	Nizamabad	1,246	28·632		29·827	28·906	28·277	·629	·199	76·0	93·0	+1·6	69·1	+0·6	81·1	+1·1	23·9	116·4	44·7	71·7	39·7
	Bidar	2,165								77·4	89·9		69·4		79·6		20·5	106·5	54·8	54·1	30·5
28	Gulbarga	1,403	28·405	+·009	29·850	28·653	28·110	·543	·178	75·8	93·6	+1·2	69·4	+0·6	81·5	+0·9	24·2	113·0	50·8	62·2	36·3
	Raichur	1,211	28·600	+·021?	29·851	28·837	28·330	·517	·172	75·0	93·1	+1·1	71·9	+0·3	82·5	+0·7	21·3	110·0	56·1	53·9	33·7
	Hyderabad (Deccan)	1,809	28·306	+·008	29·832	28·461	28·016	·445	·182	75·1	91·4	+0·8	70·0	+1·7	80·7	+1·3	21·4	110·8	53·2	58·6	32·9
	Hanamkonda	877	29·012	+·008	29·837	29·303	28·662	·641	·204	78·4	93.3	+0·4	73·1	+0·2	83·2	+0·3	20·3	114·5	53·7	61·8	33·0

N. B.—Elevations in italics indicate barometrical determinations.

* Mean of 14 months.
† " " 10 "
‡ " " 9 "

B.—contd.

stations in India, etc., in the year 1912.

Wind direction. Number of winds from Calms	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Wind velocity. Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Hygrometry, 8 hrs. Mean humidity at 8 hours of year.	Departure from normal of year.	Mean vapour tension at 8 hours in inches of mercury of year.	Departure from normal in inches of mercury of year.	Cloud. Mean cloud amount at 8 hours of year.	Departure from normal of year.	Rainfall. Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	Station.
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									X.—Bombay—*contd.*
41	32	57	97	13	16	34	47	29	6·3*	6·7	−0·4	84	+ 1	·816	+·001	5·4	+1·6	95	94·3	+0·7	93·88	93·85	+0·03	4·24	Marmagao.
192	54	51	...	...	10	50	2	7	2·5	3·0	−0·5	64	+ 1	·765	+·021	4·0	+0·2	103	103·7	−0·7	104·65	122·45	−17·80	4·12	Karwar.
72	7	9	5	5	9	80	134	45	6·3	6·5	−0·2	53	−10	·489	−·076	1·6	−1·9	24	35·0	−11·0	17·65	22·71	−5·06	4·14	Malegaon.
33	41	10	3	12	24	43	67	133	4·7	8·3	−3·6	49	−18	·429	−·135?	2·6	−0·7	26	33·3	−9·8	11·31	22·29	−10·98	1·07	Ahmadnagar.
167	2	3	9	1	1	27	144	12	6·7	8·6	−0·9	67	+ 4	·504	−·003	1·7	−2·3	39	46·8	−7·8	24·07	27·23	−3·16	3·15	Poona.
11	17	68	33	36	10	51	39	107	9·6	7·1	+2·5	56	+ 1	·513	+·010	3·6	−0·4	35	49·1	−7·1	15·93	29·50	−13·57	1·54	Sholapur.
66	18	27	10	33	27	63	58	39	6·2	4·7	+1·5	62	− 8	·547	−·057?	3·6	−0·3	34	36·5	−2·5	13·91	20·93	−7·02	0·97	Bijapur.
116	7	21	52	32	4	44	73	16	9·2	11·0	−1·8	70	0	·543	+·006	4·6	+0·3	85	61·0	+4·0	71·31	49·67	+22·14	7·00	Belgaum.
																									XI.—Central India.
84	13	33	37	6	9	46	67	9	6·4	6·4	0	57	− 1	·459	−·043	3·5	+0·9	38	36·4	+1·6	24·43	28·57	−4·14	2·50	Neemuch.
121	16	40	19	9	6	15	76	67	3·3	2·0	+0·3	57	− 6	·481	−·042	3·4	0	43	46·9	−1·9	29·68	32·79	−3·11	2·23	Indore.
96	24	12	26	6	53	37	121	3	1·8	1·9	−0·1	45	− 1	·535	−·020	3·5	+0·9	44	46·3	−2·3	46·15	43·85	+2·30	5·27	Nowgong.
157	21	...	23	75	8	57	42	13	1·9	4·4	−2·5	66	+ 5	·537	+·025	3·5	+0·9	51	54·9	−3·9	41·05	44·44	−3·39	3·56	Satna.
																									XII.—Central Provinces.
	20	22	39	39	21	35	107	63	6·3	5·7	−0·9	49		·431		2·5		35	53·3	−17·3	31·60	35·05	−13·45	2·45	Buldana. (a)
35	8	37	34	28	19	38	92	75	5·0	5·4	+0·6	49	−10	·447	−·066	3·4	0	34	46·2	−12·2	20·13	32·79	−12·66	2·40	Akola.
49	11	55	75	14	11	19	86	52	6·1	4·2	+1·9	53	− 6	·467	−·050	3·2	−0·3	33	47·8	−15·8	22·07	33·84	−11·77	3·07	Amrsoti. (a)
54	16	41	23	19	9	33	107	66	4·8	4·4	+0·4	54	− 5	·474	−·027	3·0	0	30	41·0	−11·0	19·91	29·91	−10·00	2·65	Khandwa.
59		71	43	26	9	36	47	33	2·9	2·3	+0·6	61	− 5	·491	−·060	3·5	0	46	55·6	−9·6	41·51	49·10	− 7·59	7·00	Hoshangabad.
48	11	34	36	42	19	40	103	34	5·2	3·2	+2·0	54	− 5	·445	−·050	3·4	+0·4	45	66·5	−11·5	35·74	46·25	−10·51	5·71	Saugor.
110	9	12	8	51	66	32	48	30	1·5	2·3	−0·8	65	− 2	·498	−·037	3·2	−0·2	51	64·1	−13·1	45·33	55·51	−10·19	3·10	Jubbulpore.
48	63	56	17	13	38	40	46	45	3·6	2·7	+0·9	55	− 9	·449	−·081	3·1	−0·4	60	70·4	−10·4	47·71	53·63	− 4·92	3·22	Seoni.
30	55	61	35	17	10	27	45	74	3·5	4·1	−0·6	55	− 6	·509	−·044	3·6	−0·3	50	62·9	−12·9	52·27	49·16	+ 3·11	5·66	Nagpur. (c)
116	53	15	4	20	49	42	11	53	3·5			59		·495		3·2		62	74·4	−12·4	43·35	51·50	− 9·15	2·97	Pendra. (d)
95	28	32	19	8	24	101	46	18	3·5	4·3	−0·8	64	+ 1	·561	−·004	2·5	−1·6	57	63·5	−6·5	49·15	49·99	− 0·84	5·20	Rajpur.
155	7	4	17	33	22	33	76	20	2·9	2·7	+0·2	65	0	·589	0	3·0	−0·6	53	63·7	−11·7	47·39	53·43	− 6·04	4·80	Chanda.
99	31	6	11	29	49	49	71	21				76		·623		3·4		80			57·61			5·00	Jagdalpur.
																									XIII.—Hyderabad.
24	31	36	60	44	5	43	73	50	8·0			53	− 27	·472		3·8		35	44·3	−9·3	16·94	29·37	−11·43	1·18	Aurangabad.
192	7	3	5	15	16	76	43	9	3·6			62	− 5	·552		3·3		56	54·9	+1·1	37·21	40·87	− 3·66	2·30	Nizamabad.
93	7	23	7	49	6	98	31	54	5·4			58		·546		5·0		49	53·7	−4·7	33·06	37·55	− 4·50	2·25	Bidar. (b)
27	21	59	67	40	24	49	58	41	6·5	7·4	−0·9	58	− 6	·534	−·042	2·0	−1·8	51	45·4	+5·6	28·70	33·14	− 4·44	2·05	Gulbarga.
	82	36	32	65	31	71	75	42	6·9	7·1	−0·2	62	− 3	·603	−·002	3·9	+0·2	44	44·7	−0·7	20·91	28·62	− 7·71	2·13	Raichur.
248		6	1	4		1	105	1	3·5	4·0	−1·5	67	− 3	·588	−·034	3·7	+0·2	40	49·4	−9·4	25·73	31·32	− 5·60	2·74	Hyderabad (Deccan).
93	19		5	98	46	20	67	26	5·2			64	− 3	·619		4·2		51	50·5	+0·5	28·61	34·75	− 6·19	2·07	Hanamkonda.

* Uncorrected for scale error.

(a) Wind observations for 365 days.
(b) " " " 363 "
(c) " " " 365 "
(d) " " " 363 "

TABLE

(2) Abstract of observations taken at 8 hrs. at 222

Number of sub-division.	Station.	Elevation of barometer above sea-level, in feet.	Pressure, 8 hrs., in inches.							Temperature of air.										
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to constant gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	XIV.—Mysore.																				
29	Chitaldrug	2,405	27·533	+·008	29·442	27·722	27·295	·427	·142	73·8	87·0	+0·4	67·9	+0·7	77·4	+0·6	19·1	100·1	55·8	44·3	27·8
	Hassan	3,149	26·840	+·012	29·881	27·023	26·651	·372	·133	69·9	83·4	+0·7	63·3	+1·1	73·3	+0·9	20·0	95·3	48·9	46·4	28·8
	Bangalore	3,021	26·958	+·011	29·867	27·148	26·763	·385	·134	70·4	85·3	+1·1	64·6	+0·6	74·9	+0·9	20·6	98·8	43·8	50·0	30·3
	Mysore	2,518	27·443	+·005	29·395	27·640	27·252	·388	·135	72·3	86·1	−0·2	63·1	+0·5	76·1	+0·1	20·0	98·0	53·0	45·0	28·4
	XV.—Madras.																				
30	Mangalore	65	29·869	−·003	29·866	30·058	29·689	·369	·148	79·4	87·6	−0·5	74·5	+1·4	81·0	+0·5	13·1	95·8	63·9	31·9	20·9
	Calicut	27	29·906	+·005	29·862	30·081	29·750	·331	·140	77·9	86·8	−1·2	74·8	+0·7	80·3	−0·2	11·1	93·8	65·1	28·7	17·9
	Cochin	9	29·933	+·002	29·869	30·107	29·812	·295	·121	79·2	87·6	0	75·1	+0·3	81·3	+0·2	12·5	93·2	66·2	27·0	18·4
	Triyandrum	198	29·741	+·014	29·670	29·899	29·627	·272	·128	78·1	84·8	+0·3	75·0	+1·5	79·9	+1·1	9·8	92·0	68·5	26·5	15·7
31	Pamban	37	29·878	−·001	29·843	30·092	29·705	·387	·164	81·7	89·0	+1·7	76·8	−0·7	82·9	+0·5	12·2	94·2	69·0	25·2	16·9
	Madura	442	29·455	+·021	29·664	29·706	29·293	·413	·144	81·2	93·8	−0·1	75·1	+1·3	84·5	+0·6	16·7	105·0	63·1	41·9	28·5
	Pudukkottai	318	29·600		29·859	29·856	29·416	·440	·146	80·7	93·8	...	74·9		84·4	...	18·9	106·8	61·1	45·7	29·0
	Negapatam	31	29·883	+·001	29·842	30·116	29·703	·413	·142	81·9	90·1*	+0·7*	76·7*	+1·0*	83·4*	+0·9*	13·4	104·5	62·0	42·5	24·0
	Trichinopoly	255	29·673	+·013	29·885	29·925	29·427	·498	·161	81·4	94·6	+0·2	74·8	+0·7	84·7	+0·4	19·8	106·1	61·8	44·3	29·6
	Coimbatore	1,341	28·579	−·004	29·857	28·830	28·394	·426	·149	75·7	89·5	−0·9	69·6	+0·1	79·6	+0·4	19·9	100·5	53·3	42·2	29·6
	Salem	940	29·021	+·014	29·807	29·262	28·838	·424	·143	78·5	94·2	+1·3	72·2	+1·6	83·2	+1·4	22·0	107·0	54·8	52·2	31·8
	Cuddalore	37	29·884	+·010	29·851	30·142	29·674	·468	·156	80·6	90·5	+0·1	75·4	+1·3	83·0	+0·7	15·1	107·8	61·7	46·1	25·0
	Vellore	707	29·207		29·853	29·473	29·024	·449	·163	78·3	93·8	...	72·6	...	83·7	...	20·2	109·2	54·5	54·7	31·5
	Madras	22	29·899	+·002	29·843	30·160	29·658	·502	·166	81·4	91·9	+0·2	75·6	+0·9	83·7	+0·9	16·3	111·5	60·5	51·0	27·4
32	Cuddapah	433	29·475	+0·5	29·847	29·731	29·212	·519	·169	80·7	96·4	+0·9	74·8	+0·4	85·6	+0·7	21·6	112·2	53·6	58·6	33·3
	Bellary	1,475	28·427	−·001	29·839	29·636	28·166	·462	·161	77·0	94·3	+1·2	71·6	+1·0	82·9	+1·1	22·7	108·0,	52·8	55·2	33·0
	Kurnool	922	28·971	−·002	29·839	29·221	28·684	·537	·171	76·6	94·9	+1·0	71·8	+1·3	83·4	+1·3	23·1	110·7	49·1	61·6	35·1
33	Nellore	66	29·832	+·009	29·833	30·113	29·562	·551	·187	81·1	93·5	−1·1*	75·2	+0·1	84·3*	−0·5*	18·3*	112·6	61·1	51·5	27·0
	Masulipatam	15	29·887	+·015	29·837	30·176	29·554	·622	·210	80·5	91·1	+0·5	74·7	+0·4	82·9	+0·5	16·3	117·3	58·7	58·6	37·7
	Cocanada	26	29·875	+·019	29·838	30·171	29·507	·664	·226	79·9	89·7	+0·3	75·0	+0·1	82·3	+0·2	14·8	111·7	59·6	52·1	26·6
	Waltair (Vizagapatam)	226	29·663	+·018	29·831	29·994	29·216	·778	·255	79·9	86·7	...	75·4	...	81·1	...	11·3	102·1	61·4	40·7	21·6
	Calingapatam	19	29·864	...	29·819	30·129	29·382	·747	·272	78·4	89·4	...	73·9	...	81·6	...	15·5	105·8	55·4	50·4	26·9
	Gopalpur	72	29·837	+·020	29·811	30·185	29·331	·854	·287	77·2	86·5	+0·6	73·5	+0·2	80·0	+0·4	13·1	95·2	54·5	40·7	23·2
	Bay Islands.																				
	P. V. Fraser	8	29·866*	...	29·795*	30·220	29·295	·935	·301*	80·7	...	...	...	...	...	...	...	...	...	...	...
	Port Blair	68	29·859	+·007	29·847	30·051	29·653	·398	·165	80·7	86·4	−1·0	76·7	−0·4	81·5	−0·7	9·7	96·2	67·5	28·7	17·9
	Slipper Island	90	29·813	...	29·838	30·032	29·548	·484	·169	81·0	85·4	...	77·4	...	81·4	...	8·0	93·6	70·6	23·0	15·0
	Kashmir.																				
13	Muzaffarabad	2,475	27·487	...	29·977	27·901	27·038	·863	·321	61·6	81·6	...	53·2	...	67·8	...	27·6	113·5	31·1	82·4	43·4
	Srinagar	5,204	24·895	+·008	29·866	25·207	24·813	·094	·333	50·0	67·9	+1·1	44·2	+0·2	55·6	+0·7	23·8	90·1	21·1	75·0	38·5
	Gulmarg (6)	8,569	21·825	−·004 h	21·793	22·075	21·554	·371	·248	57·4	66·2	+1·9 h	44·9	−0·3 h	55·4	+0·9 h	21·7	84·2	29·3	54·9	38·0
	Leh	10,939	20·621	+·021	20·789	21·109	20·396	·710	·360	52·6*	51·6x	...	23·6*	...	37·9x	...	27·9x	83·5	−37·5	121·0	50·9*

N. B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 11 months.
t ,, ,, 5 ,,
h ,, ,, 4 ,,
x ,, ,, 10 ,,

B.—contd.

stations in India, etc., in the year 1912.

Wind Direction. Number of winds from									Wind Velocity.			Hygrometry, 8 hrs.			Cloud.		Rainfall.						Station.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	
33	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									XIV.—Mysore.
31	2	7	52	50	3	83	113	25	4·3	5·9	—1·6	69	—1	·574	—·002	4·7	—0·4	49	48·3	+0·7	31·00	25·34	+5·66	2·06	Chitaldrug.
64	9	20	49	33	3	58	88	42	4·8	2·6	+2·2	79	+3	·577	+·003	5·5	—0·1	71	66·7	+4·3	40·77	35·91	+4·86	2·41	Hassan.
2	3	30	75	29	19	63	111	14	5·6	4·6	+1·0	78	0	·581	+·001	5·2	+0·2	59	59·2	—0·2	43·11	35·51	+7·60	4·91	Bangalore.
25	12	47	37	19	25	112	75	14	6·3	7·3	—1·0	73	+2	·617	+·016	5·9	+0·6	67	55·6	+1·4	28·34	31·30	—2·96	2·62	Mysore.
																									XV.—Madras.
22	31	74	152	22	4	12	33	15	4·3	2·1	+2·2	76	—5	·772	—·017	4·9	—0·2	125	116·4	—1·4	145·71	127·08	+18·63	8·08	Mangalore †
134	8	47	64	47	3	21	10	32	3·5	6·3	—2·8	86	+3	·819	+·017	5·3	+0·5	124	114·0	+10·0	139·45	117·00	+22·45	8·20	Calicut.
37	29	139	97	28	3	10	10	14	4·5*	4·0	+0·5	80	—1	·800	—·012	5·0	+0·3	140	138·5	+11·5	145·29	113·83	+31·46	5·81	Cochin.
130	101	41	23	2	...	7	9	52	3·5*	4·4	+0·9	92	0	·787	—·007	5·3	+0·8	110	94·0	+16·0	90·00	63·33	+26·67	5·95	Trivandrum.†
98	47	47	23	15	62	53	17	4	7·2	7·5	—0·3	80	0	·836	...	3·7	...	43	46·2	—3·2	28·65	37·19	—8·54	4·35	Pamban.
42	47	58	36	9	5	12	78	79	4·9	3·1	+1·8	73	+3	·771	+·035	6·5	+2·3	43	49·9	—6·0	33·38	34·30	—0·92	3·32	Madura.
87	70	63	2	4	9	29	24	78	5·4	...	...	75	...	·775	...	5·4	...	50	54·6	—4·6	27·60	33·70	+3·90	2·47	Pudukkottai.
5	8	43	19	28	9	65	109	80	6·0	5·0	+1·0	76	0	·823	+·015	4·8	—0·6	43	55·8	—7·8	40·18	53·56	—13·38	9·18	Negapatam.
57	48	41	17	2	16	51	112	22	3·5*	4·2	—0·7	70	—3	·737	+·006	4·1	—0·8	39	46·1	—7·1	33·22	32·38	—0·14	4·80	Trichinopóly.
97	19	93	10	6	38	91	7	2	4·9	3·1	+1·8	85	+2	·764	+·031	4·1	—0·6	42	45·0	—3·0	29·66	22·10	+7·46	2·93	Coimbatore.
93	9	24	77	7	34	55	61	5	3·7	3·1	+0·6	77	+1	·752	+·023	5·5	+1·1	58	64·4	—6·4	32·75	40·20	—7·46	1·92	Salem.†
82	34	5	3	7	33	116	41	76	5·6	1·8	+3·8	77	—6	·907	—·051	5·0	—0·2	57	56·2	+0·8	49·77	50·89	—1·12	7·75	Cuddalore.
205	7	6	36	10	2	8	81	10	2·6	...	...	75	...	·725	...	3·5	...	54	56·7	—2·7	40·68	45·33	—4·65	7·43	Vellore.
21	34	7	2	13	71	67	78	53	4·6*	5·0	—0·4	78	+2	·840	+·035	4·0	—1·1	46	57·9	—11·9	45·69	49·47	—2·78	5·79	Madras.
11	39	35	55	64	17	30	43	72	...	...	...	68	0	·713	+·007	3·5	—0·8	49	46·0	+3·0	28·20	31·03	—3·43	2·50	Cuddapah.
78	15	8	20	33	25	31	101	55	4·1	4·3	—0·7	64	+2	·594	+·014	3·9	—0·8	37	35·5	+1·5	22·60	19·98	+2·62	2·23	Bellary.
83	5	7	40	24	38	73	54	42	5·5*	...	...	67	+1	·614	—·011	3·6	—0·2	30	47·5	—8·5	19·11	26·92	—7·81	1·70	Kurnool.
66	34	6	4	2	101	21	51	89	4·5*	4·9	—0·4	74	—2	·775	—·034	4·6	—0·5	45	42·0	+3·0	44·58	34·97	+9·61	5·99	Nellore.
35	66	28	11	33	46	30	52	65	5·1	4·8	+0·3	89	—2	·837	—·0097	4·4	—0·4	60	53·1	+6·9	42·81	40·00	+2·81	3·80	Masulipatam.
115	34	50	5	11	8	50	77	16	4·5	5·8	—1·3	78	+3	·808	+·048	6·2	+1·5	43	52·9	—4·9	26·38	38·96	—12·58	2·04	Cocanada.
9	30	52	2	6	5	139	63	11	6·5	...	...	74	+1	·758	—·009	5·6	+0·8	51	50·0	+1·0	52·46	57·26	—4·80	2·52	Waltair (Vizagapatam)
10	66	15	5	5	17	80	70	68	7·5	...	...	83	...	·804	...	3·7	...	53	43·2	+4·8	67·64	36·49	+31·15	7·58	Calingapatam.
16	91	35	3	4	60	81	6	61	3·4	3·6	—0·2	84	+3	·797	+·013	3·8	—0·8	53	57·0	—4·0	40·29	44·87	—4·58	2·52	Gopalpur.
																									Bay Islands.
13	50	35	13	13	48	133	39	23	...	...	...	80	...	·856	...	4·7	...	54	...	...	36·40	...	...	3·92	P. V. Fraser.†
89	46	39	20	10	25	36	54	47	5·7	5·5	+0·2	83	— 3	·863	—·032	5·8	—0·2	140	140·0	0	115·52	118·49	— 2·97	4·44	Port Blair.
15	64	60	32	15	37	67	40	36	3·1	...	...	82	...	·869	...	4·4	...	104	100·4	+ 3·6	92·69	79·07	+13·62	4·80	Slipper Island.
																									Kashmir.
2	12	31	19	45	86	130	22	19	2·9§	...	...	64	...	·370	...	3·2	...	65	...	...	53·20	...	...	4·00	Muzaffarabad.
194	15	16	7	91	44	15	16	44	1·7	2·6	—0·9	61	— 5	·329	—·026	4·3	—0·3	47	59·7	—12·7	20·39	27·24	— 6·85	1·57	Srinagar.
80	6	26	32	9	2	1	1	5	3·6	...	...	71	...	·339	...	3·6	...	26	...	...	13·79	...	...	2·59	Gulmarg.**
336	...	1	1	...	...	5	17	6	2·4	...	...	718	— 5	·1715	...	3·0	...	50	57·1	—7·1	18·99	21·78	— 2·89	2·25	Dras.

* Uncorrected for scale error.
† Wind observations for 365 days.
§ Mean of 10 months.
** Wind observations for 152 days.

TABLE

(2) *Abstract of observations taken at 8 hrs. at 222*

Number of sub-division.	Station.	Elevation of bar-cistern above sea-level, in feet.	Pressure, 8 hrs., in inches.							Temperature of air.									
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and corrected to constant gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean hot-tem. maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Kashmir—*concld.*																				
	Leh	*11,503*	19·713	+·010	19·681	19·952	19·296	·656	·332	37·2	55·5	+0·1	28·8	—1·0	42·1	—0·5	26·8	84·9	—2·0	86·9	43·5
	Skardu	*7,505*	22·896	+·017	22·866	23·365	22·517	·838	·435	46·6	62·0	—0·2	40·4	0	51·2	—0·1	21·6	90·0	—4·9	103·9	43·6
	Gilgit	4,890	25·135	...	25·106	25·604	24·6 0	·964	·430	56·7	73·6	+0·8	51·7	—1·6	62·6	—0·4	21·9	111·2	16·7	94·5	40·6
	Baluchistan.																				
15	Fort Sandeman *	...	25·363	...	25·332	25·655	25·054	·601	·262	65·5	86·0	...	56·3	...	71·2	...	29·8	106·9	23·1	83·8	47·2
	Quetta	5,502	24·642	+·021	24·602	24·866	24·320	·546	·245	55·2	73·7	+0·2	43·5	—0·9	58·6	—0·3	30·2	99·1	18·7	80·4	47·9
	Chaman	4,811	25·681	+·010	25·643	25·951	25·317	·634	·267	64·1	77·8	—1·1	54·1	—2·0	65·9	—1·5	23·7	107·8	21·8	86·0	44·6
	Kalat	6,630	23·779	...	23·741	24·049	23·461	·588	·222	45·8	71·2	...	36·8†	...	57·2†	...	40·6†	99·0	5·2	93·8	57·2†
	Dalbandin	2,779	27·104	...	26·836	27·459	26·683	·776	·304	67·5	88·6	...	56·3	...	72·4	...	32·3	115·2	26·8	86·5	53·3
	Pasni	...	29·863	...	29·833	30·202	29·388	·814	·274	73·0	87·5	...	70·1	...	78·8	...	17·4	108·0	51·0	55·0	30·7
	Panjgur	...	26·727	...	26·695	26·998	26·358	·640	·240	61·6	84·3	...	57·7	...	71·0	...	26·6	108·8	30·5	78·3	45·1
	Robat	...	26·800	...	26·758	27·323	26·377	·946	·267	65·8	86·0	...	59·8	...	72·9	...	26·2	118·0	26·3	91·7	49·1
	Hill stations excluding Kashmir and Baluchistan.																				
	Chitral ‡	*5,486*	...	...	...	...	...	...	...	55·2	71·1	...	47·2	...	59·2	...	23·9	106·6	14·2	92·4	43·6
	Para Chinar	6,000	24·435	...	24·411	24·673	24·129	·544	·276	57·0	70·0	...	47·4	...	58·7	...	22·6	99·2	14·1	85·1	41·2
	Cherat	*4,256*	25·701	+·033	25·669	25·904	25·324	·580	·297	62·0	72·5	—1·3	56·2	—0·5	64·3	—0·9	16·3	104·2	32·4	71·8	35·8
	Droshǂ	...	...	...	...	...	...	...	...	56·5	75·3	...	52·3	...	63·9	...	23·0	101·2	22·6	78·6	30·9
	Murree	6,333	23·843	+·014	23·811	24·045	23·578	·467	·266	55·4	64·4	—1·4	52·6	+1·8	58·5	+0·2	11·8	93·6	28·7	64·9	30·1
	Simla	7,232	23·107	+·033	23·069	23·283	23·089	·394	·246	54·1	61·1	+0·2	50·2	+0·3	55·6	+0·3	10·9	83·1	30·1	53·0	25·8
	Sanaiu	...	23·145	...	23·107	23·326	22·915	·411	·240	48·5	61·3	...	42·8	...	52·1	...	18·5	83·8	21·0	62·8	33·5
	Kalabagh ‖	...	20·117	...	20·079	20·274	19·862	·412	·200	49·0	54·5	...	43·6	...	49·1	...	10·8	64·0	33·1	31·9	21·4
	Chakrata	7,022	23·291	+·027	23·251	23·494	23·062	·432	·240	54·5	65·7	+1·4	48·1	—1·5	56·9	—0·1	17·5	85·7	28·7	57·0	30·7
	Mukteswar	7,503	22·832	—·004	22·791	23·030	22·600	·430	·248	53·5	63·4	—0·8	46·7	—1·7	55·1	—1·2	16·7	84·0	27·0	57·0	31·7
	Darjiling	7,376	23·961	—·015	23·946	23·171	23·744	·427	·230	52·4	59·2	+0·7	47·8	+0·3	53·5	+0·5	11·4	71·8	30·2	41·6	21·9
	Shillong	4,930	25·126	...	25·073	25·317	24·776	·541	·234	60·6	69·6	...	53·3	...	61·4	...	16·3	79·9	33·7	47·2	27·7
	Cherrapunji	4,309	25·639	...	25·640	25·874	25·343	·532	·227	63·2	68·4	...	56·9	...	62·7	...	11·5	80·7	33·1	47·6	25·2
	Maymyo	3,545	26·434	+·007	26·379	26·615	26·136	·479	·208	63·1	76·3	—0·8	57·3	+1·8	66·8	+0·5	19·0	91·0	35·6	55·4	30·2
	Pachmarhi	3,528	26·438	+·012	26·385	26·708	26·013	·695	·220	70·0	80·9	+1·4	61·1	—0·1	71·0	+0·7	19·8	104·5	36·1	68·4	35·0
	Mount Abu	3,945	26·046	+·017	25·996	26·288	25·676	·612	·231	68·6	77·1	+1·0	63·0	+1·0	70·1	+1·0	14·0	100·2	45·4	54·8	27·2
	Mercara	3,781	26·230	—·001	26·183	26·398	25·975	·423	·127	66·0	76·0	+0·4	61·4	+0·1	69·2	+0·3	15·5	90·5	51·0	39·5	24·4
	Ootacamund	7,337	23·072	...	23·008	23·206	22·918	·288	·119	57·7	66·8	...	49·3	...	58·0	...	17·5	77·0	34·7	42·3	23·4
	Kodaikanal	7,688	22·839	—·001	22·774	22·969	22·690	·279	·114	57·4	65·7	+1·0	51·4	+0·2	58·6	+0·6	14·3	78·0	40·5	37·5	25·5
	Extra India.																				
	Singapore (a)	10	29·938	...	29·869	30·100	29·828	·272	·148	83·3	88·3	...	75·0	...	81·6	...	13·3	93·0	70·5	22·5	19·4
	Penang (a)	17	29·884	...	29·829	30·016	29·738	·288	·170	52·8	90·1	...	74·1	...	82·1	...	16·1	95·0	69·0	27·0	21·7
	Trincomalee	99	29·777†	?	29·805†	29·960	29·650	·310	·146†	77·7	90·1	+1·6	75·4	—0·9	82·8	+0·3	14·7	99·0	67·5	31·5	23·3

N. B.—Elevations in italics indicate barometrical determinations.
Note.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.
(a) 9 hrs. observations.

* Mean of 9 months.
† ,, 8 ,,
‡ ,, 7 ,,
§ ,, 5 ,,
‖ ,, 6 ,,

B—contd.

stations in India, etc., in the year 1912.

Wind direction. Number of winds from									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.						Heaviest rainfall during year.	Station.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.		
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									Kashmir—concld.
310	8	12	2	1	25	7	1	...	2·2	1·5	+0·7	53	0	·132	+·001	4·2	—0·6	15	9·6	+5·4	3·14	3·26	— 0·12	0·32	Leh.
249	...	2	28	14	12	48	13	1	3·0	...	...	59	—12	·188	...	4·5	...	20	19·0	+1·0	9·30	7·48	+ 1·82	2·30	Skardu.
303	...	...	3	4	3	18	34	1	0·9	...	...	51	0	·257	—·012	3·7	—1·1	13	15·9	—2·9	3·22	5·11	— 1·89	0·41	Gilgit.
																									Baluchistan.
93	23	24	29	10	6	41	44	6	3·1	...	...	51	...	·353	...	1·4	...	14	...	...	5·82	...	...	0·94	Fort Sandeman.
274	6	12	4	21	14	17	4	9	1·7	2·1	—0·4	54	— 4	·250	—·037	1·8	—0·1	28	24·3	+3·7	10·13	10·03	+0·11	1·34	Quetta.
131	5	3	41	52	43	61	16	9	4·0	5·9	—1·9	46	+ 4	·262	—·005	1·8	—0·2	23	18·6	+4·4	8·59	6·68	+1·91	1·54	Chaman.
172	2	4	1	36	60	61	1	9	4·4	...	...	58	...	·208	...	1·1	...	20	17·8	+2·2	7·53	6·74	+0·78	1·03	Kalat.
43	20	41	102	33	30	42	22	26	4·9	...	...	46	...	·324	...	1·6	...	11	...	...	3·73	...	...	1·07	Dalbandin.
343	21	5	13	3	1	10	44	26	3·6	...	...	85	...	·724	...	2·3	...	9	...	...	4·08	...	...	0·82	Pasni.
59	26	133	94	13	10	27	6	9	5·3	...	...	63	...	·372	...	1·2	...	11	...	...	4·62	...	...	1·38	Panjgur.
71	11	27	31	22	46	56	84	8	3·1	...	...	50	...	·323	...	2·3	...	11	...	...	6·16	...	...	1·73	Robat.§
																									Hill stations excluding Kashmir and Baluchistan.
195	23	1	6	3	7	2	3	3	2·8	...	...	63	...	·284	...	4·6	...	20	35·2	—15·2	7·22	15·42	— 8·20	0·98	Chitral.
205	29	23	8	15	16	23	28	26	1·9	...	...	59	...	·272	...	2·4	...	61	63·6	— 2·8	29·56	27·85	+ 1·71	1·72	Para Chinar.
70	133	18	...	18	29	14	10	74	8·0	8·3	—0·3	49	— 4	·295	—·024	3·8	+0·7	42	41·7	+ 0·3	22·18	27·48	— 5·30	2·57	Cherat.
116	4	2	9	6	3	4	4	...	1·8	...	...	47	...	·242	...	1·1	...	9	40·2	—31·2	2·43	16·94	—14·51	0·32	Drosh.**
153	47	9	13	98	21	7	...	20	3·7	5·3	—1·6	56	+ 1	·265	+·002	3·9	+0·1	75	76·3	— 1·3	48·79	57·97	— 9·18	3·23	Murree.
...	...	...	...	...	...	...	...	...	...	...	...	55	— 3	·253	—·007	4·0	—0·2	88	85·1	+ 2·9	58·67	63·11	— 4·44	3·66	Simla.
90	1	3	4	...	30	15	1	...	1·2	...	...	75	...	·274	...	4·4	...	94	91·0	+ 3·0	59·78	64·55	— 4·77	5·24	Sarain.
68	38	...	...	21	16	3	1	35	4·9	...	...	72	...	·255	...	5·3	...	72	63·5	+ 8·5	55·08	55·00	+ 0·08	7·78	Kalsegh.††
121	119	34	2	20	50	2	...	12	3·0	4·6	—1·6	64	0	·295	+·004	4·2	+0·8	95	87·5	+ 7·5	61·34	72·44	+ 8·90	4·71	Chakrata.
113	7	26	60	16	10	4	113	17	5·7	...	...	61	0	·269	...	4·2	...	77	79·6	— 2·6	52·69	50·90	+ 1·79	4·74	Muktesawar.
273	4	22	13	11	2	14	24	4	1·1	3·5	—2·4	85	—3	·354	—·003	6·3	+0·3	136	121·3	+14·7	128·77	121·00	+ 7·77	8·65	Darjiling.
263	...	5	12	13	17	52	3	1	1·7	...	...	75	...	·411	...	4·3	...	125	125·7	— 0·7	92·87	84·65	+ 8·22	3·66	Shillong.
224	4	30	13	5	9	56	12	8	2·9	...	...	81	...	·466	...	5·9	...	155	361·3	— 6·3	367·87	460·90	—22·03	15·10	Cherrapunji.
222	1	18	1	14	3	104	3	...	1·6	...	...	39	+6	·532	...	4·7	...	92	90·6	+ 1·4	55·80	55·57	— 0·77	3·06	Maymyo.
93	17	30	19	26	15	64	23	79	3·7	4·3	—0·6	60	0	·424	—·010	2·6	—1·2	65	76·9	—11·9	74·96	75·33	— 0·37	7·50	Pachmarhi.
48	49	39	5	10	35	89	44	47	4·7	5·7	—1·0	53	—2	·366	—·007	3·3	0	56	53·9	+ 2·1	43·99	60·80	—16·81	4·14	Mount Abu.
151	9	47	44	4	2	17	57	35	3·2	4·3	—1·1	33	+5	·555	+·019	5·1	+0·2	133	133·3	— 0·3	133·40	126·88	+ 6·52	6·19	Mercara.
101	9	33	74	42	14	13	51	29	2·9	...	...	70	...	·333	...	5·4	...	117	104·7	+12·3	54·25	55·20	— 1·95	2·03	Ootacamund.
5	46	53	69	36	9	5	76	67	9·9*	...	...	69	—1	·326	...	4·7	...	103	107·7	— 5·7	65·23	61·65	+ 3·58	4·07	Kodaikanal.
																									Extra India.
116	19	65	6	60	26	46	1	27	4·2*	...	...	...	...	...	...	5·3	...	129	133·4	— 4·4	90·75	93·99	+ 5·76	4·57	Singapore.
4	23	194	6	62	9	10	...	58	8·2*	...	...	...	...	...	...	...	...	110	132·6	—22·6	92·58	106·41	—13·83	6·61	Penang.
20	3	66	7	7	3	235	11	4	5·9*	7·3	—1·4	84	+3	·810	—·054	6·1	+2·3	63	71·3	— 8·3	44·99	62·16	—17·17	2·61	Trincomalee.

* Uncorrected for scale error.
§ Wind observations for 362 days.
‡ Mean of 5 months.
** Wind observations for 148 days.
†† " " " 173 "

TABLE

(2) *Abstract of observations taken at 8 hrs. at 222*

Number of sub-division.	Station.	Elevation of bar-cistern above sea-level, in feet.	Pressure, 8 hrs., in inches.							Temperature of air,											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean daily maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly (absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Extra India —*concld.*																				
	Colombo	24	29·908	—·013	29·858	30·057	29·795	·262	·136	75·8	87·9	+0·9	74·1	—1·5	81·0	—0·3	13·8	97·0	61·5	35·5	21·9
	Minicoy	7	29·954	...	...	30·110	29·527	·283	·127	...	...	...	...	...	...	...	...	...	...	...	...
	Aminí Divi†	*13*	29·931	0	29·872	30·118	29·743	·375	·145	82·3	88·2	+2·3	77·2	+0·5	82·7	+1·4	10·9	98·8	65·9	32·9	20·3
	Gyantse	13,120	17·096	...	17·057	17·305	16·935	·370	·178	37·0	58·5	...	22·3	...	40·4	...	36·2	83·7	—3·0	86·7	52·9
	Pharijong	14,400	...	...	...	...	...	...	...	34·0†	44·6	...	17·1†	...	31·6†	...	29·0†	74·4	—25·1	99·5	50·3†
	Gangtok	5,660‡	24·575§	...	24·530§	24·684	24·416	·268	·161§	57·6	68·2	...	52·9	...	60·5	...	15·3	80·3	37·2	43·1	25·6
	Gartok (*c*)	15,100	17·570	...	...	17·775	17·390	·385	·141	25·3	47·5	...	11·3	...	29·5	...	36·2	79·7	—32·3	112·0	58·1
	Kashgar (*c*)**	4,255	25·659 **	...	...	26·170	25·210	·960	·521 **	49·1	65·1	+2·4	41·4	+0·8	53·3	+1·6	23·6	98·9	4·5	94·4	46·8
	Kabul††	...	24·244	...	24·213	24·441	23·973	·468	·232	54·4	70·8	+3·1	51·9	+8·2	64·3	+5·6	24·9	106·4	7·8	98·6	42·1
	Meshed	3,104	26·793	...	29·917	27·290	26·369	·921	·436	52·8	70·6	...	42·7	—3·1	56·7	...	27·9	105·2	—7·9	113·1	52·3
	Jask	13	29·859	—·007	29·825	30·267	29·352	·915	·227	75·3	87·2	+0·7	73·1	—0·3	80·1	+0·2	14·2	107·8	53·3	54·5	26·1
	Muscat	20	29·869	+·011	29·887	30·269	29·313	·956	·257	81·3	90·8	+6·4	77·7	—1·0	83·8	+2·7	13·1	112·3	60·1	52·2	25·7
	Bahrein	18	29·901	...	29·873	30·393	29·366	1·027	·308	77·4	92·7	...	72·1	...	77·4	...	10·6	103·3	48·7	54·6	26·9
	Bushire	14	29·866	+·005	29·843	30·347	29·368	·979	·321	72·8	81·4	—0·8	68.2	—0·3	74·8	—0·6	13·2	101·8	39·5	62·3	29·8
	Busrah	25	29·883	...	29·877	30·389	29·357	1·032	·380	72·3	85·6	...	60·7	...	76·2	...	18·9	116·9	35·1	81·8	35·9
	Kermanî	...	§§ 24·720	...	...	25·120	24·240	·880	§§ ·301	59·0	81·9	...	44·6	...	63·2	...	37·4	110·8	15·8	95·0	59·1
	Ispahan (*b*)	*5,817*	24·273	...	...	24·590	23·890	·640	·349	54·0	73·5	—0·6	45·6	+0·4	59·5	—0·1	27·9	101·9	0·2	101·7	44·1
	Tehran (*b*)	4,002	25·746	...	...	26·050	25·395	·655	·363	57·9	72·8	—0·2	51·4	+0·4	62·1	+0·1	21·4	105·8	16·5	89·3	41·3
	Baghdad	127	29·791	0	29·897	30·397	29·258	1·139	·438	66·6	82·7	+2·7	50·6	+0·5	73·8	+1·6	27·7	117·2	27·2	90·0	45 8
	Beirut (*c*)	...	...	...	...	29·941	...	...	...	68·4	73·6	...	63·1	...	67·8	...	11·5	98·8	44·1	54·7	28·5
	Aden	94	29·848	+·022	29·874	30·090	29·540	·550	·185	80·9	87·5	—0·8	77·9	+0·2	83·7	—0·3	9·6	98·1	67·4	30·7	13·8
	Zanzibar	72	30·001	+·009	29·909	30·153	29·842	·311	·135	78·7	84·2	+0·6	76·4	0	80·3	+0·3	7·8	90·7	69·3	21·4	14·7

N.B.—Elevations in italics indicate barometrical determinations.
Note.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.
(*g*) 8¼ hrs. observations.
(*b*) Aneroid uncorrected.
(*c*) Aneroid corrected.

† Mean of 11 months.
§ ,, ,, 4 ,,
†† ,, ,, 10 ,,
‡ ,, ,, 7 ,,
§§ ,, ,, 6 ,,

B—contd.

stations in India, etc., in the year 1912.

Wind direction. Number of winds from									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.						Heaviest rainfall during year.	Station.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.		
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									Extra India —*concld.*
171	17	52	4	1	2	83	27	39	3·5*	5·8	−2·3	91	+14	·814	−·031	7·2	+2·1	139	106·7	+30·3	101·11	84·53	+16·58	4·63	Colombo.
...	93	48	14	3	19	39	41	79	5·2	6·9	−1·7	...	...	...	...	5·1	+0·5	97	92·5	+ 4·5	65·15	61·84	+ 3·31	3·54	Minicoy.
19	98	45	4	5	16	89	21	58	6·9	...	...	75	−4	·839	−·050	4·8	−0·5	72	74·6	− 2·6	44·66	52·36	− 7·70	3·51	Amini Divi.
281	1	15	21	37	1	6	2	2	1·4‖	...	...	80	...	·195	...	0·8	...	40	...	...	9·29	...	...	0·78	Gyantse.
213	15	18	3	60	23	22	4	9	7·8	...	...	76‡	...	·183‡	...	2·8	...	58	...	...	28·12	...	...	2·60	Pharijong.
327	5	11	7	4	4	1	2	4	1·1	...	...	86*	...	·429	...	2·7	...	179	165·4	+13·6	150·36	135·11	+15·25	4·47	Gangtok.§
213	...	1	2	87	19	20	...	...	6·2*	...	...	...	...	...	...	3·1	...	7	...	...	1·28	...	...	0·30	Gartok.¶
163	...	...	...	...	...	2	...	17	0·5	2·1	−1·6	66	P	·273	P	3·4	−0·8	6	8·8	− 2·8	2·65	3·28	− 0·43	1·25	Kashgar.
2	21	9	41	47	83	30	56	9	...	...	...	69	...	·342	...	(a) 1·7	(a) +0·1	3	27·8	−24·8	2·40	12·89	−10·49	1·00	Kabul.††
307	13	7	7	9	9	3	5	6	1·2	...	...	62	...	·249	...	3·0	P	27	22·5	+ 4·5	9·03	9·37	− 0·34	0·78	Meshed.
30	65	60	104	14	3	...	20	70	6·3	8·7	−2·4	74	0	·654	−·073	2·6	+0·4	11	8·9	+ 2·1	4·78	4·17	+ 0·61	1·08	Jask.
114	23	5	64	7	3	4	41	106	4·2	3·1	+1·1	63	− 6	·677	−·065	2·9	+1·3	16	8·2	+7·8	8·06	3·64	+4·42	2·02	Muscat.
...	63	10	18	10	12	25	31	133	5·3	...	...	70	...	·676	...	1·6	...	9	6·9	+2·1	4·24	2·47	+1·87	1·12	Bahrein.§
89	46	59	39	20	4	3	21	84	6·9	5·8	+1·1	76	+11	·673	+·065	1·9	...	14	19·0	−4·9	5·35	11·07	−5·72	1·49	Bushire.‖
31	10	20	14	26	28	45	126	66	3·0	...	...	60	...	·481	...	2·3	...	18	14·7	+3·3	4·73	6·23	−1·50	0·69	Busrah.
316	33	12	7	6	14	21	12	48	3·1	...	...	47	...	·236	...	1·1‡	...	7	...	...	2·08	...	...	0·44	Kerman.
201	4	...	3	5	4	23	29	8	2·1	2·9	−0·8	57	− 7	·260	−·069	1·6	−0·5	8	13·7	−5·7	2·57	4·74	−2·17	0·65	Ispahan.
155	33	22	18	8	14	22	5	2	2·3	2·3	+0·1	53	+ 5	·255	+·015	2·0†	−0·5	22	26·9	−4·9	5·90	9·30	−3·40	0·44	Tehran.§§
105	57	11	3	19	20	7	21	126	5·2	2·7	+2·5	55	− 4	·354	−·055	1·8	+0·6	12	16·0	−4·0	3·76	6·95	−3·19	0·51	Baghdad.¶¶
99	7	16	8	30	116	51	31	3	...	...	...	68	...	·488	...	4·3	...	55	...	...	44·43	...	...	2·36	Beirut.
78	26	125	44	15	2	23	...	3	8·7	9·1	−0·4	74	+ 1	·782	+·001	4·9	−0·2	4	4·5	−0·5	1·90	2·65	−0·75	1·10	Aden.
45	34	36	5	38	100	92	13	3	4·5	4·9	−0·4	83	0	·811	−·006	5·7	−0·2	92	88·8	+3·2	66·01	63·30	+2·71	4·88	Zanzibar.

* Uncorrected for scale error.
† Mean of 9 months.
‡ Wind observations for 365 days.
§ " " " 350 "
¶ Mean of 6 months.
†† Wind observations for 286 days.
‡‡ " " " 354 "
§§ " " " 363 "

(a) Mean of 2 months.
† " " 11 "

Table C.—Abstract of observations taken at 8 hrs. at 67 fourth and fifth class stations in India, etc., in the year 1912.

TABLE

Abstract of observations taken at 8 hrs. at 67 fourth and

Number of sub-division.	Station.	Temperature of air.												Wind direction, Number of winds from								
		Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.	Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	II.—Assam.																					
4	Balek*	...	87·3	...	73·8	...	80·5	...	13·5	98·1	69·6	28·5	26·9	...	...	...	...	...	...	...	...	...
	Bishnath	70·2	83·9	...	65·1	...	74·5	...	18·8	95·6	44·7	50·9	20·7	...	...	...	...	...	...	...	...	...
	Borjuli	71·3	84·4	...	63·6	...	74·0	...	20·8	96·0	39·4	56·6	32·6	...	...	...	...	...	...	...	...	...
	Chandkhira †	70·0	87·8	...	68·8	...	75·8	...	24·0	104·0	38·8	64·2	30·1	...	...	...	...	...	...	...	...	...
	Doom Dooma	66·5	89·5	...	63·6	...	73·1	...	18·9	98·5	41·4	57·1	31·8	...	...	...	...	...	...	...	...	...
	Dikom	69·4	89·7	...	63·7	...	73·3	...	20·0	98·6	39·6	59·0	32·2	...	...	...	...	...	...	...	...	...
	Golaghat	70·7	92·0‖	...	65·2	...	67·2‖	...	7·7	92·3	32·2	60·2	32·2‖	...	...	...	...	...	...	...	...	...
	Haflakandi§	72·4	86·6	...	66·4**	...	76·2**	...	20·2	96·4	51·0	45·4	28·3**	...	...	...	...	...	...	...	...	...
	Jorehat	70·2	92·5	...	65·5	...	74·0	...	17·0	97·1	44·3	52·8	28·4	...	...	...	...	...	...	...	...	...
	Lumding‖	72·8	86·3	...	63·7	...	77·2	...	17·1	98·7	45·4	51·3	27·6	...	...	...	...	...	...	...	...	...
	Messa	76·5	87·7	...	62·9	...	75·3	...	24·8	99·7	39·0	60·7	36·5	...	...	...	...	...	...	...	...	...
	Panerihat	65·8	83·4	...	61·7	...	73·5	...	21·7	96·0	39·0	57·0	33·1	...	...	...	...	...	...	...	...	...
	Srimahgal	72·4	87·9	...	65·7	...	76·8	...	22·2	97·4	40·2	57·2	33·5	...	...	...	...	...	...	...	...	...
	III.—Bengal.																					
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	77·3	89·7	...	68·5	...	77·6	...	18·2	98·7	48·1	50·6	29·5	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	77·7	88·1	...	67·6	...	77·8	...	20·5	102·2	45·5	56·7	32·8	...	...	...	...	...	...	...	...	...
	Pabna	75·4	87·8	...	63·2	...	78·0	...	19·6	101·0	46·2	54·8	30·8	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	68·4†	89·0†	...	60·3†	...	74·4†	...	28·7	98·7	36·2	62·5	40·0†	...	...	...	...	...	...	...	...	...
	Kalchini	74·1	84·5	...	60·7	...	72·6	...	23·8	96·6	38·4	58·2	35·2	...	...	...	...	...	...	...	...	...
	Nagrakata	73·5	84·6	...	64·5	...	74·5	...	19·9	95·1	44·0	51·1	30·8	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																					
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 2 months. † Mean of 10 months. ‡ Mean of 11 months.

C.

fifth class stations in India, etc., in the year 1912.

Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.							Station.
Mean velocity in miles per hour.	Normal.	Departure from normal.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension of 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Total rainfall for the year.	Normal rainfall for the year.	Departure from normal of year.	Heaviest rainfall during the year.	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
																II.—Assam.
...	...	...	...	...	...	...	...	...	28	...	...	77·20	...	...	7·58	Balek.
...	...	...	94	..	·727	...	...	...	112	...	...	85·93	88·58	— 2·65	7·19	Bishnath.
...	...	...	83	...	·668	...	...	...	129	...	...	90·96	77·73	+13·23	4·20	Borjuli.
...	...	...	91	...	·703	...	...	...	119	...	...	92·12	...	...	4·25	Chandkhira.
...	...	...	96	...	·640	...	...	...	127	...	...	103·73	96·74	+ 6·99	6·15	Doom Dooma.
...	...	...	90	...	·657	...	...	...	127	...	...	103·38	...	...	4·40	Dikom.
...	...	...	88	...	·600	...	...	...	110	...	...	73·53	...	...	3·63	Golaghat.
...	...	...	93	...	·752	...	...	...	36	...	...	28·97	...	...	4·55	Hailakandi.
...	...	...	91	...	·693	...	...	...	133	...	...	89·46	76·37	+13·09	3·24	Jorehat.
...	...	...	90	...	·741	...	...	...	68?	...	...	44·97	...	...	4·15	Lumding.
...	...	...	79	...	·733	...	...	...	122	...	...	76·25	83·62	— 7·37	2·70	Messe.
...	...	...	94	...	·637	...	...	...	111	...	...	81·80	74·30	+ 7·50	4·10	Panerihat.
...	...	...	89	...	·732	...	...	...	135	...	...	102·59	95·88	+ 6·71	4·09	Silmpgal.
																III.—Bengal.
...	...	...	...	...	...	...	...	...	115	...	...	103·51	88·38	+15·13	3·67	Comilla.
...	...	...	79	...	·750	...	...	...	100	...	...	79·67	79·33	+ 0·34	9·32	Brahmanbaria.
...	...	...	...	...	...	...	...	...	96	...	...	71·06	68·30	+ 2·36	5·93	Faridpur.
...	...	...	77	...	·758	...	...	...	88	...	...	68·02	...	...	6·22	Goalundo.
...	...	...	82	...	·749	...	...	...	89	...	...	62·23	60·11	+ 2·12	6·39	Pabna.
...	...	...	...	...	...	...	...	...	83	...	...	55·82	64·30	— 8·43	4·10	Sirajganj.
...	...	...	...	...	...	...	...	...	62	...	...	37·68	53·98	—16·30	3·47	Rampur Boalia.
...	...	...	...	...	...	...	...	...	68	...	...	53·84	52·82	+ 1·02	3·80	Malda.
...	...	...	...	...	...	...	...	...	89	...	...	97·20	80·53	+16·67	5·05	Rangpur.
...	...	...	90†	...	·654†	...	...	...	127	...	...	149·45	...	...	7·05	Dam Dim.
...	...	...	77	...	·681	...	...	...	109	...	...	106·80	...	...	7·19	Kalchini.
...	...	...	75	...	·649	...	...	...	125	...	...	152·20	161·05	— 8·85	6·08	Nagrakata.
...	...	...	...	...	...	...	...	...	113	...	...	135·58	145·70	—10·12	6·40	Cooch Behar.
...	...	...	...	...	...	...	...	...	85	...	...	62·18	57·05	+ 5·13	4·46	Krishnagar.
...	...	...	...	...	...	...	...	...	71	...	...	65·67	54·39	+11·28	4·82	Bankura.
...	...	...	...	...	...	...	...	...	76	...	...	45·41	53·72	— 7·31	2·53	Raniganj.
																IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	56	...	...	44·01	52·25	— 8·24	3·29	Hazaribagh.
...	...	...	...	...	...	...	...	...	59	...	...	46·65	49·00	— 2·35	2·93	Bhagalpur.
...	...	...	...	...	...	...	...	...	60	...	...	46·91	49·11	— 2·20	3·99	Muzaffarpur.
...	...	...	...	...	...	...	...	...	53	...	...	46·04	56·17	—10·13	7·75	Motihari.
...	...	...	...	...	...	...	...	...	51	...	...	34·69	41·81	— 7·12	4·81	Chapra.
...	...	...	...	...	...	...	...	...	51	...	...	37·19	44·25	— 7·06	2·82	Arrah.
...	...	...	...	...	...	...	...	...	52	...	...	31·62	42·16	—10·54	4·07	Dehri.

§ Mean of 5 months. ‡ Mean of 9 months. ** Mean of 4 months.

TABLE

Abstract of observations taken at 8 hrs. at 67 fourth and

Number of sub-division.	Station.	Temperature of air.											Wind direction. Number of winds from							
		Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.	Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	V.—United Provinces of Agra and Oudh.																					
9	Ballia	73·8	90·7‡	...	56·5	...	79·4‡	...	24·2	108·2	44·6	63·6	35·5‡	...	...	...	...	...	...	...	...	...
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																					
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																					
23	Chhindwara	71·5	88·0	...	53·8	...	75·9	...	24·2	110·7	39·8	70·9	38·2	...	26	35	12	11	14	64	107	97
	XV.—Madras.																					
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	77·9	93·9	...	71·1	...	83·5	...	22·8	108·5	51·1	57·4	33·5	...	...	...	...	...	...	...	...	...
33	Guntur	80·1	94·1	...	73·8	...	83·9	...	20·3	117·2	56·3	60·9	33·3	...	...	...	...	...	...	...	...	...
	Bay Islands.																					
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																					
13	Jammu	74·4	88·1	...	64·4	...	74·8	...	20·7	110·6	42·5	69·1	38·1	...	133	168	15	4	38	...	10	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	41·5	60·5	...	28·4	...	46·9	...	27·1	89·7	−16·0	125·7	51·0	...	139	62	72	67	...	5	...	13
	Astor	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																					
	Panighatta	71·6	82·2	...	65·1	...	74·0	...	17·1	94·0	49·4	50·6	28·6	...	...	...	...	...	...	...	...	...
	Kurseong	61·1	67·6	...	56·5	...	62·1	...	11·1	81·7	40·9	40·8	21·9	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	61·4‡	...	42·5	...	51·4‡	...	18·9	91·5	20·9	70·6	35·7‡	168	8	4	49	20	3	10	71	28
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Droch ¶	56·2	72·4	...	51·2	...	61·8	...	21·1	140·1	24·1	98·0	40·1	42	18	28	47	19	22	13	15	4
	Pishin	...	75·3	...	45·4	...	60·3	...	29·9	103·9	13·0	93·9	48·6	...	...	...	...	...	...	...	...	...

‡ Mean of 11 months. ¶ Mean of 7 months.

C—contd.

fifth class stations in India, etc., in the year 1912—contd.

Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.							Station.
Mean velocity in miles per hour.	Normal.	Departure from normal.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Total rainfall for the year.	Normal rainfall for the year.	Departure from normal of year.	Heaviest rainfall during the year.	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
																V.—United Provinces of Agra and Oudh.
...	...	...	74	...	·863	...	...	...	...	...	...		No rain	gauge.		Ballia.
...	...	...	...	...	...	...	...	...	39	...	...	35·13	32·27	+2·86	4·05	Meerut.
...	...	...	...	...	...	...	...	...	67	...	...	62·74	85·22	—22·48	10·37	Dehra Dun.
																IX.—Rajputana.
...	...	...	...	...	...	...	...	...	35	...	...	25·45	23·40	+2·05	3·75	Udaipur.
																XII.—Central Provinces.
2·2	...	...	65	...	·526	...	2·2	...	58	...	...	42·22	...	...	3·70	Chhindwara.
																XV.—Madras.
...	...	...	...	...	...	...	...	...	37	...	...	24·54	27·29	—2·75	3·75	Tinnevelly.
...	...	...	69	...	·869	...	5·8	...	43	...	...	28·36	...	...	3·23	Anantapur.
...	...	...	83	...	·853	...	4·5	...	48	...	...	20·71	...	...	1·85	Guntur.
																Bay Islands.
...	...	...	...	...	...	...	...	...	126	...	...	122·01	96·97	+25·04	5·90	Car Nicobar.
																Kashmir.
...	...	...	60	...	·529	...	2·31	...	41	...	...	33·22	41·79	—9·57	3·48	Jammu.
...	...	...	...	...	...	...	...	...	108	...	...	62·51	77·84	—15·33	4·50	Sonamarg.
...	...	...	50	...	·161	...	3·3	...	18	...	...	11·40	9·85	+1·55	2·10	Kargil.
...	...	...	...	...	...	...	...	...	26	...	...	18·47	...	...	4·70	Astor. ††
																Hill stations, exclusive of Kashmir.
...	...	...	71	...	·578	...	...	...	129	...	...	146·70	137·53	+9·17	7·77	Panighatta.
...	...	...	80	...	·448	...	...	...	139	...	...	167·20	153·72	+13·48	6·92	Kurseong.
...	...	...	...	...	...	...	...	...	199	...	...	166·84	...	...	5·27	Gnatong.
...	...	...	...	...	...	...	...	...	90	...	...	45·13	...	...	3·30	Lachung. ‡‡
...	...	...	...	...	...	...	...	...	119	...	...	144·63	...	...	8·49	Ringim. §§
...	...	...	...	...	...	...	4·6	...	23	...	...	8·93	14·50	—5·57	1·01	Poo.
...	...	...	...	...	...	...	...	...	...	...	...	1·72*	23·08	...	0·39	Kailang.
...	...	...	...	...	...	...	...	...	71	...	...	80·44	...	...	5·00	Bakloh. ‖‖
...	...	...	56	...	·280	...	1·6	...	22	...	...	9·06	...	...	1·27	Dros.
...	...	...	...	...	...	...	1·7‡	...	28	...	...	12·73	8·12	+4·61	1·85	Pishin.

‡‡ Total rainfall of 10 months only. §§ Total rainfall of 7 months only. ‖‖ Total rainfall of 9 months only.
†† " " " 4 " * Rainfall since 20th September 1912.

TABLE

Abstract of observations taken at 8 hrs. at 67 fourth and

Number of sub-division.	Station.	Temperature of air.											Wind direction.								
		Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.	Number of winds from							
														Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Extra India.																					
	Ahwaz	...	87·5	...	72·8	...	80·4	...	14·7	117·3	36·8	80·5	30·9	...	...	...	...	...	...	...	...	...
	Chumbi ‖	41·3	56·8	...	35·6	...	46·2	...	21·2	73·3	14·1	59·2	37·3	...	...	...	...	...	...	...	...	...
	Kirmanshah	54·0	70·1	...	41·7	...	55·9	...	28·4	106·4	—9·0	115·4	49·5	...	...	...	...	...	...	...	...	...
	Koweit	...	65·7	...	58·5	...	77·1	...	17·2	115·4	36·2	79·2	35·9	25	32	1	29	3	19	29	95	133
	Maidan ‡	...	88·4	...	64·4	...	76·4	...	24·0	122·6	35·2	87·4	39·9	...	...	...	...	...	...	...	...	...
	Muhammerah	...	85·3	...	66·7	...	76·0	...	18·6	108·4	36·8	71·6	33·7	...	3	...	...	38	5	25	...	194
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Prison Island	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Seistan ‡	...	83·7	...	59·0	...	70·9	...	25·7	114·8	26·0	88·8	49·7	37	77	12	7	7	2	3	21	160

‖ Mean of 9 months.

C—concld.

fifth class stations in India, etc., in the year 1912—concld.

Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.						Heaviest rainfall during the year.	Station.
Mean velocity in miles per hour.	Normal.	Departure from normal.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Total rainfall for the year.	Normal rainfall for the year.	Departure from normal of year.		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
																Extra India.
...	...	...	...	...	...	...	1·8	...	12	...	...	4·97	...	...	0·73	Ahwaz.
...	...	...	79	...	·229	...	3·4	...	74	...	...	24·74	...	...	0·80	Chumbi.
...	...	...	55	...	·223	...	...	...	30	...	...	14·26	...	...	2·92	Kirmanshah.
...	...	...	...	...	...	...	1·5	...	8	...	...	2·66	...	...	0·54	Koweit.
...	...	...	...	...	...	...	...	...	24	...	...	13·77	...	...	1·83	Maidan. ‡
...	...	...	...	...	...	...	...	...	17	...	...	5·51	...	...	1·15	Muhammerah.
...	...	...	...	...	...	...	...	...	97	...	...	58·21	83·58	—25·37	2·70	Pemba.
...	...	...	...	...	...	...	...	...	Not received.		...	...	...	...	...	Prison Island.
10·1	...	...	...	...	...	..	...	...	7	...	...	1·92	...	...	0·85	Seistan.

‡ Mean of 11 months.

Addenda sheet of 10 hrs. and 16 hrs. observations in Table A of 1912, Monthly Weather Review.

Addenda sheet of 10 hrs. and 16 hrs. observations

Number of sub-division.	Station.	Elevation of bar-cistern above sea-level, in feet.	Pressure.						Temperature of air.										Temperature, Wet-bulb.			
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressure.	Departure from normal.	Mean, reduced to standard gravity, 45° Lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	January 1912.																					
14	Srinagar	5,204	25·017	24·940	·068	24·974	—·017	24·945	45·2	32·4	12·8	51·2	25·8	25·4	36·5	43·0	35·8	+6·1	31·0	34·7	40·2	35·3
	Diego Garcia . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mauritius . . .	181	...	...	...	29·809	+·064	29·934	87·4	73·4	14·0	90·2	68·0	22·2	...	...	79·8	+1·3	...	...	...	73·9
	February 1912.																					
	Diego Garcia . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mauritius . . .	181	...	...	...	29·860	—·077	29·786	83·7	74·8	8·9	88·0	71·1	16·9	...	...	78·6	+0·1	...	...	...	75·9
	March 1912.																					
	Diego Garcia . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mauritius . . .	181	...	...	...	29·734	—·031	29·880	83·8	72·6	11·2	88·7	67·5	19·2	...	...	77·7	+0·2	...	...	...	73·4
	April 1912.																					
	Diego Garcia . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mauritius . . .	181	...	...	...	29·849	+·022	29·976	82·1	70·1	12·0	84·7	66·1	18·6	...	...	75·4	+0·1	...	...	...	71·3
	May 1912.																					
	Diego Garcia . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mauritius . . .	181	...	...	...	29·854	—·030	29·983	79·0	68·0	10·2	81·5	62·3	19·2	...	...	73·1	+1·0	...	...	...	69·5
	June 1912.																					
	Diego Garcia . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mauritius . . .	181	...	...	...	29·947	—·023	30·077	75·6	63·3	13·3	77·8	58·9	23·9	...	...	68·6	+0·2	...	...	...	64·0
	July 1912.																					
	Diego Garcia . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mauritius . . .	181	...	...	...	29·992	—·019	30·123	74·5	61·9	12·6	77·3	57·4	19·9	...	...	67·6	0	...	...	...	63·6
	August 1912.																					
	Diego Garcia . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mauritius . . .	181	...	...	...	30·014	0	30·145	75·1	61·4	13·7	77·2	55·5	21·7	...	...	67·6	—0·3	...	...	...	63·9
	December 1912.																					
	Mauritius . . .	181	...	...	...	29·843	+·032	29·975	...	...	...	...	...	...	...	...	76·1	—1·5	...	...	...	70·8

NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

in Table A of 1912, Monthly Weather Review.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind direction.											Wind steadiness.		Wind velocity.		Rainfall.		Station.	Number of sub-division.
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Total number of 10 hrs. winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal mean wind direction of month.	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
																															January 1912.	
·159	·181	·218	·186	+·028	86	83	78	82	−2	8·1	7·5	7·8	+0·6	12	4	3	...	8	3	1	5	26	N 47° W	S 21° E	35	4	45	54	2·90	1·57	Srinagar.	14
...	...	...	...	...	...	...	...	...	...	(a) 5·1	(b) 5·2	5·1	...	...	3	4	4	10	...	2	...	11	(c) N 42° E	...	21	...	(d) 55	...	12·39	2·20	Diego Garcia. (*f*)	
...	...	...	·731	−·007	...	...	...	72	−4	...	...	6·5	+0·5	...	...	...	...	...	...	...	...	...	N 84° E	S 66° E	...	...	202*	160	7·31	1·93	Mauritius.	
																															February 1912.	
...	...	...	...	...	...	...	...	...	...	6·3	6·7	6·5	...	...	6	7	2	8	2	3	3	22	(g) N 23° W	...	37	...	218	...	10·81	2·02	Diego Garcia. (*f*)	
...	...	...	·838	+·078	...	...	...	86	+7	...	...	8·5	+2·6	...	...	...	...	...	...	...	...	...	N 54° E	S 83° E	...	...	231*	162	31·51	7·32	Mauritius.	
																															March 1912.	
...	...	...	...	...	...	...	...	...	...	(h) 6·4	(i) 5·5	6·0	...	...	4	2	...	2	2	3	3	37	(j) N 52° W	...	73	...	(k) 173	...	13·03	1·55	Diego Garcia. (*f*)	
...	...	...	·741	−·013	...	...	...	78	−2	...	...	5·4	−0·7	...	...	...	...	...	...	...	...	...	S 67° E	S 82° E	...	...	182*	165	2·92	1·11	Mauritius.	
																															April 1912.	
...	...	...	...	...	...	...	...	...	...	(k) 5·1	(l) 4·8	4·9	...	...	2	5	2	30	3	1	2	10	(m) S 54° E	...	38	...	(k) 122	...	5·57	2·15	Diego Garcia. (*f*)	
...	...	...	·694	0	...	...	...	79	0	...	...	5·2	+0·1	...	...	...	...	...	...	...	...	...	S 69° E	S 72° E	...	...	164*	159	5·89	2·21	Mauritius.	
																															May 1912.	
...	...	...	...	...	...	...	...	...	...	(n) 6·5	(o) 5·6	6·1	...	...	2	5	4	15	2	5	...	12	(p) S 72° E	...	15	...	(q) 127	...	9·10	3·80	Diego Garcia. (*f*)	
...	...	...	·660	+·054	...	...	...	81	+4	...	...	5·6	+0·8	...	...	...	...	...	...	...	...	...	S 62° E	S 64° E	...	...	208*	168	6·41	1·20	Mauritius.	
																															June 1912.	
...	...	...	...	...	...	...	...	...	...	(r) 5·0	(s) 3·7	4·3	...	...	...	...	...	14	4	...	...	...	(t) S 42° E	...	98	...	(u) 180	...	0·42	0·27	Diego Garcia. (*f*)	
...	...	...	·527	−·009	...	...	...	75	−2	...	...	4·9	+0·3	...	...	...	...	...	...	...	...	...	S 59° E	S 63° E	...	...	181*	174	0·91	0·27	Mauritius.	
																															July 1912.	
...	...	...	...	...	...	...	...	...	...	(v) 5·3	(l) 6·0	5·7	...	...	1	1	3	39	7	...	1	2	(w) S 43° E	...	79	...	(u) 211	...	1·25	0·42	Diego Garcia. (*f*)	
...	...	...	·492	−·019	...	...	...	73	−2	...	...	4·9	+0·1	...	...	...	...	...	...	...	...	...	S 59° E	S 64° E	...	...	234*	185	1·95	0·63	Mauritius.	
																															August 1912.	
...	...	...	...	...	...	...	...	...	...	(x) 6·0	(x) 4·7	5·3	...	...	...	...	...	6	...	...	...	...	(y) S 49° E	...	99	...	(x) 338	...	1·09	0·47	Diego Garcia. (*f*)	
...	...	...	·502	−·001	...	...	...	75	+1	...	...	5·9	+0·8	...	...	...	...	...	...	...	...	...	S 63° E	S 66° E	...	...	204*	185	1·75	0·29	Mauritius.	
																															December 1912.	
...	...	...	·663	−·020	...	...	...	74	+1	...	...	6·4	+0·8	...	...	...	...	...	...	...	...	...	N 73° E	S 88° E	...	...	159,	166	4·83	...	Mauritius.	

(*a*) Mean of 19 days.
(*b*) ,, ,, 16 ,,
(*c*) ,, ,, 18 ,,
(*d*) ,, ,, 29 ,,
(*e*) ,, ,, 24 ,,
(*f*) ,, ,, 28 ,,
(*g*) ,, ,, 26 ,,
(*h*) ,, ,, 25 ,,
(*i*) ,, ,, 23 ,,
(*j*) ,, ,, 22 ,,
(*k*) ,, ,, 3 ,,
(*l*) Mean of 27 days.
(*m*) ,, ,, 26 ,,
(*n*) ,, ,, 25 ,,
(*o*) ,, ,, 22 ,,
(*p*) ,, ,, 8 ,,
(*q*) ,, ,, 3 ,,
* Uncorrected for scale error.
(*r*) Observations of 9 hrs. and 15 hrs.
(*s*) Wind observations 28 less,
(*t*) ,, ,, 6 ,,
(*u*) ,, ,, 9 ,,
(*v*) Wind observations 6 less.
(*w*) ,, ,, 17 ,,
(*x*) ,, ,, 12 ,,
(*y*) ,, ,, 8 ,,
(*z*) ,, ,, 56 ,,

Addenda sheet of 8 hrs. observations in Table B of 1912, Monthly Weather Review.

Addenda sheet of 8 hrs. observations

Number of sub-division.	Station.	Elevation of bar-distern above sea-level, in feet.	Pressure, 8 hrs., in inches.								Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure recorded during month.	Date.	Lowest pressure recorded during month.	Date.	Total range of pressure during month.	Mean of 8 hrs. temperature.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	January 1912.																						
	Gartok (c)	14,140	17·568	...	...	17·750	17th	17·450	11th	·300	6·9	29·3	...	—	...	7·4	...	43·7	38·9	27th	—32·3	3rd	71·2
	February 1912.																						
	Kerman	...	...	...	...	...	...	...	...	...	41·6	64·3	...	33·1	...	48·7	...	31·2	74·8	19th	25·5	16th & 22nd.	49·3
	May 1912.																						
	Amini Divi	13	29·877	—·005	29·818	29·924	8th	29·815	12th	·109	87·0	93·4	+3·3	82·3	+1·9	87·9	+2·5	14·1	97·6	21st	75·3	8th & 29th.	22·3
	October 1912.																						
	Beirut (b)	...	...	...	29·946	...	...	...	...	...	73·6	78·7	...	67·2	...	72·9	...	11·5	89·1	7th & 8th.	51·8	30th	37·3
	November 1912.																						
	Beirut (b)	...	...	...	30·073	...	...	...	...	...	65·7	70·8	...	60·5	...	65·7	...	10·3	75·6	22nd	54·3	30th	21·3
	December 1912.																						
	Beirut (b)	...	...	...	30·121	...	...	...	...	...	57·4	63·0	...	53·8	...	58·4	...	9·2	72·0	5th	48·7	28th	23·3

(c) Aneroid corrected. (b) 8¼ hrs. observations.

in Table B of 1912, Monthly Weather Review.

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal in inches of mercury.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall for period.	Normal rainfall for period.	Departure from normal of period.	Heaviest rainfall during month.	Station.
26	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																January 1912.
13	...	...	...	...	19	...	5	...	S 25° E	...	6·7	...	...	45	...	...	...	...	...	4·1	...	0	...	...	0	...	...	0	...	...	0	Gartok.
																																February 1912.
14	1	...	...	...	8	3	2	1	S 32° W	...	3·7	...	...	35	...	59	...	·151	...	1·2	...	3	...	...	1·00	...	...	3·25	...	...	0·49	Kerman.
																																May 1912.
5	1	...	...	...	...	7	11	7	N 87° W	...	5·6	...	...	68	...	71	...	·006	...	5·8	...	3	...	...	2·92	3·14	—0·22	2·92	3·14	—0·22	1·94	Amini Divi.
																																October 1912.
17	...	1	1	2	8	2	...	..	S 11° E	...	...	...	...	82	...	69	...	·571	...	4·1	...	7	...	...	7·06	...	...	8·44	...	...	1·78	Beirut.
																																November 1912.
11	...	1	...	2	15	1	...	...	S 4° E	...	...	...	...	53	...	62	...	·391	...	3·9	...	9	...	...	7·62	...	...	16·06	...	...	2·30	Beirut.
																																December 1912.
5	2	...	...	6	13	1	1	...	S 16° E	...	...	...	...	61	...	66	...	·314	...	4·8	...	9	...	...	9·06	...	...	9·06	...	...	1·65	Beirut.

Addenda sheet of 8 hrs. observations in Table C of 1912, Monthly Weather Review.

Addenda sheet of 8 hrs. observations in

Number of sub-division.	Station.	Temperature of air. Mean of 8 hrs. temperature.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	August 1912.													
	Extra India.													
	Chumbi	56·0	66·5	...	51·2	...	58·9	...	15·3	69·9	9th	45·4	30th	24·5
	September 1912.													
	Hill Stations, exclusive of Kashmir.													
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...
	October 1912.													
	Extra India.													
	Chumbi *	40·5	61·6†	...	38·2†	...	49·9†	...	23·4	66·7	8th	34·3	17th, 19th & 25th.	32·5
	Hill Stations, exclusive of Kashmir.													
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...
	November 1912.													
	Extra India.													
	Chumbi	33·3	55·6	...	33·1‡	...	44·3‡	...	22·4	50·2	13th & 20th	32·1	9th	24·1
	Hill Stations, exclusive of Kashmir.													
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...
	December 1912.													
	III.—Bengal.													
5	Godlundo	62·9	78·5	...	51·5	...	65·0	...	27·0	83·0	21st	48·7	15th	34·3
	Hill Stations, exclusive of Kashmir.													
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...

* Observations of 30 days.
† Mean of 29 days.
‡ „ „ 27 „

Table C of 1912, Monthly Weather Review.

Wind direction. Number of winds from Calm	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity, 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal in inches of mercury.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall for period.	Normal rainfall for period.	Departure from normal of period.	Heaviest rainfall during month.	Station.
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47*	48
																																August 1912.
																																Extra India.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	86	...	·385	...	...	...	17	...	...	4·71	...	...	18·26	...	...	0·97	Chumbi.
																																September 1912.
																																Hill Stations, exclusive of Kashmir.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2·7	−1·7	0·46*	1·93†	−1·47	0·46*	1·93†	−1·47	0·39	Kailang.
																																October 1912.
																																Extra India.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	78	...	·266	...	...	...	5	...	...	1·42	...	...	21·11	...	...	0·56	Chumbi.
																																Hill Stations, exclusive of Kashmir.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0	1·2	−1·2	0	0·52	−0·52	0·46*	2·45†	−1·99	0	Kailang.
																																November 1912.
																																Extra India.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	77	...	·146	...	...	...	1	...	...	0·21	...	...	21·32	...	...	0·21	Chumbi.
																																Hill Stations, exclusive of Kashmir.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	0·9	+1·1	0·50	0·37	+0·13	0·96*	2·82†	−1·86	0·28	Kailang.
																																December 1912.
																																III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	70	...	·456	...	...	...	0	0·7	−0·7	0	0·23	−0·23	0	0·23	−0·23	0	Goalundo.
																																Hill Stations, exclusive of Kashmir.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	2·3	+1·7	0·76	1·00	−0·24	0·76	1·00	−0·24	0·18	Kailang.

* Actual rainfall since 20th September 1912.
† Normal " " 1st "

Corrigenda in the India Monthly Weather Reviews for the year 1912.

TEXT.

Page.	Column.	Part.	Correction.
11	1	January 1912 .	*For* "2·00, +0·87 and + 77" *read* "2·01, + 0·88 and +78" respectively against Punjab in the figure Columns 1, 3 and 4 of table 15.
20	...	February 1912 .	*For* "0·35,—0·52 and — 60" *read* "0·36, — 0·51 and —59" respectively against United Provinces, West, in the figure Columns 3, 5 and 6 of table 12.
20	...	Ditto . .	*For* "3·2, 1·94, +1·56 and + 411" *read* "3·1, 1·66, +1·29 and + 337" respectively against Central Provinces West, in the figure Columns 1, 3, 5 and 6 of table 12.
20	...	Ditto . . .	*For* "6·1, 3·46, + 3·01 and + 669" *read* "6·2, 3·50, + 3·05 and + 678" respectively against Central Provinces, East, in the figure Columns 1, 3, 5 and 6 of table 12.
21	2	Ditto . .	*For* "1·86, + 1·52 and + 4·47" *read* "1·77, + 1·43 and + 4·21" repectively against Central Provinces, in the figure Columns 1, 3 and 4 of table 13.
29	...	March 1912 . .	*For* "0·48, 0 and 0" *read* "0·49, + 0·01 and + 2" respectively against United Provinces, West, in the figure Columns 3, 5 and 6 of table 14.
40	...	April 1912 . . .	*For* "0·21, — 0·02 and — 3" *read* "0·22, — 0·01 and — 4" respectively against United Provinces, West, in the figures Columns 3, 5 and 6 of table 14.
40	...	Ditto . .	*For* "0·80, + 0·37 and + 90" *read* "0·81, + 0·38 and + 88" respectively against Punjab, East and North, in the figure Columns 3, 5 and 6 of table 14.
40	...	Ditto . .	*For* "1·22, + 0·35 and + 230" *read* "1·25, + 0·88 and + 238" respectively against Punjab, Southwest, in the figure Columns 3, 5 and 6 of table 14.
40	...	Ditto . .	*For* "0·11 — 0·11, and — 50" *read* "0·12, — 0·10 and — 45" respectively against Central Provinces, West in the figure Columns 3, 5 and 6 of table 14.
41	1	Ditto . .	*For* "0·89, + 0·47 and + 112" *read* "0·90, + 0·48 and + 114" respectively against the Punjab, in the figure Columns 1, 3 and 4 of table 15.
50	...	May 1912 . .	*For* "0·30, — 0·35 and — 54" *read* "0·31, — 0·34 and —52" respectively against the Punjab, East and North, in the figure Columns 3, 5 and 6 of table 15.
51	1	Ditto . . .	*For* "0·29, — 0·31 and — 52" *read* "0·30, — 0·30 and — 50" respectively against the Punjab in the figure Columns 1, 3 and 4 of table 16.
60	...	June 1912 . .	*For* "2·9, 1·83' — 3·47 and — 65" *read* "3·0, 1·90, — 3·45 and — 64" respectively against United Provinces, East, in the figure Columns 1, 3, 5 and 6 of table 16.
60	...	Ditto . . .	*For* "1·32, — 3·32 and — 72" *read* "1·33, — 3·31 and 71" respectively against United Provinces, West, in figure Columns 3, 5 and 6 of table 16.
61	1	Ditto . . .	*For* "0·61, — 1·74 and — 74" *read* "0·63, — 1·72 and —73" respectively against the Punjab, East and North, in the figure Columns 3, 5 and 6 of table 16.
61	...	Ditto . . .	*For* "1·0" *read* "1·1 against Punjab, Southwest, in the figure Column 1 of table 16.
61	...	Ditto . . .	*For* "3·2, 1·65, — 5·52 and — 77" *read* "3·3, 1·71, — 5·46 and — 76" respectively against Central Provinces, West, in the figure Columns 1, 3, 5 and 6 of table 16.
61	...	Ditto . . .	*For* "3·7, 2·01, — 6·45 and — 76" *read* "3·8, 2·17, 6·29 and — 74" respectively against Central Provinces, East, in the figure Columns 1, 3, 5 and 6 of table 16.
61	1	Ditto . . .	*For* "1·62, — 3·39 and — 68" *read* "1·63, — 3·38 and — 67" respectively against United Provinces, in the figure Columns 1, 3 and 4 of table 17.
61	...	Ditto . . .	*For* "0·56, — 1·45 and — 72" *read* "0·58, — 1·43 and — 71" respectively against the Punjab, in the figure Columns 1, 3, and 4 of table 17.
61	2	Ditto . . .	*For* "2·62, — 4·49 and — 66" *read* "2·38, — 4·43 and — 65" respectively against Central Provinces, in the figure Columns 1, 3 and 4 of table 17.
68	2	July 1912 . . .	*For* " + 0·5" *read* " + 0·6" against Rajputana, in the figure Column 3 of table 13.
69	...	Ditto . . .	*For* "10" *read* "19" against United Provinces, West, in the figure Column 6 of table 16.
70	...	Ditto . . .	*For* "6·71 and + 0·04" *read* "6·73 and + 0·06" respectively against the Punjab, East and North, in the figure Columns 3 and 5 of table 16.
70	...	Ditto . . .	*For* "14·89 and + 0·49" *read* "14·90 and + 0·50" respectively against Central Provinces, West, in the figure Columns 3 and 5 of table 16.

Corrigenda in the India Monthly Weather Reviews for the year 1912.

TEXT—*concld.*

Page.	Column.	Part.	Correction.
70	1	July 1912 . .	*For* "5·79 and — 0·01" *read* "3·81 and + 0·91" respectively against the Punjab, in the figure Columns 1 and 3 of table 17.
70	2	Ditto . . .	*For* "13·58 and + 0·83" *read* "13·59 and + 0·84" respectively against Central Provinces, in the figure Columns 1 and 3 of table 17.
80	...	August 1912 . .	*For* "12·" *read* "12·5" against United Provinces, East, in the figure Column 2 of table 14.
90	...	September 1912 .	*For* "3·29, — 2·46 and — 43" *read* "3·36, — 2·39 and — 42" respectively against Central India, West, in the figure Columns 3, 5 and 6 of table 14.
90	...	Ditto . .	*For* "5·4, 5·40, — 1·57 and — 23" *read* "6·4, 7·38, + 0·41 and + 6" respectively against Central India, East, in the figure Columns 1, 3, 5 and 6 of table 14.
91	2	Ditto . .	*For* "3·57, — 2·59 and — 42" *read* "4·76, — 1·40 and — 23" respectively against Central India, in the figure Columns 1, 3 and 4 of table 15.
120	...	December 1912 .	*For* "0·07, — 0·29 and — 81" *read* "0·08, — 0·28 and — 78" respectively against Central Provinces, West, in the figure Columns 3, 5 and 6 of table 14.
120	...	Ditto . .	*For* "0·04, — 0·26 and — 87" *read* "0·05, — 0·25 and — 83" respectively against Central Provinces, in the figure Columns 1, 3 and 4 of table 15.

Corrigenda in the India Monthly Weather Reviews for the year 1912.

TABLES A, B & C.

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
ii	January 1912	A	Allahabad	Pressure	4 and 6–9	*For* "29·827, ·107, 29·760, +0·34 and 30·036" *read* "29·880, ·110, 29·762, +·036 and 30·038" respectively.
v	Ditto	B	Punjab	Rainfall	18 and 20	*For* "2·00 and +0·87" *read* "2·01 and +0·88" respectively.
vi	Ditto	„	Mergui	Pressure	4–7 and 9	*For* "29·952, +·005, 29·948, 30·044 and 29·807" *read* "29·965, +·018, 29·961, 30·057 and 29·820" respectively.
„	Ditto	„	Ditto	Temperature	12–18, 20 and 22	*For* "76·0, 88·5, +0·4, 69·8, +2·9, 79·2, +1·7, 91·9 and 64·7" *read* "75·4, 87·6, −0·5, 68·9, +2·0, 78·3, +0·8, 91·0 and 63·8" respectively.
„	Ditto	„	Rangpur	Ditto	23	*For* "7th" *read* "17th".
viii	Ditto	„	Jalpaiguri	Pressure	4–7 and 9	*For* "29·801, +·011, 30·060, 29·948 and 29·698" *read* "29·810, +·020, 30·069, 29·957 and 29·707" respectively.
x	Ditto	„	Patiala	Temperature	15, 17 and 19	*For* "49·1, 57·6 and 17·0" *read* "45·2‡, 56·4‡ and 20·9" respectively.
„	Ditto	„	Jaipur	Ditto	15—19	*For* "50·2, +2·2, 63·1, +1·8 and 25·8" *read* "50·1, +2·1, 63·0, +1·7 and 25·9" respectively.
„	Ditto	„	Kotah	Pressure	4–7 and 9	*For* "29·250, +·012?, 30·072?, 29·371 and 29·057" *read* "29·259, +·021, 30·081, 29·380 and 29·066" respectively.
					Footnote	*Insert* ‡ mean of 10 days.
xii	Ditto	„	Ahmadnagar	Ditto	4–7 and 9	*For* "27·920, +·044, 30·057, 27·998, and 27·829" *read* "27·914, +·038, 30·051, 27·992 and 27·823" respectively.
„	Ditto	„	Sutna	Temperature	12, 15–19, 22 and 24.	*For* "55·1, 49·3, +1·7, 62·4, +1·1, 26·2, 41·8 and 44·5" *read* "54·2, 48·7, +1·1, 62·1, +0·8, 26·8, 41·2 and 45·1" respectively.
„	Ditto	„	Akola	Ditto	15, 16, 17, 18, 19, 22 and 24.	*For* "53·9, +0·5, 71·2, +1·9, 34·6, 46·1 and 48·1" *read* "54·3, +0·9, 71·4, +2·1, 34·2, 46·5 and 47·7" respectively.
xiv	Ditto	„	Coimbatore	Pressure	4–7 and 9	*For* "28·734, +·044, 30·036, 28·820 and 28·679" *read* "28·745, +·055, 30·047, 28·831 and 28·690" respectively.
„	Ditto	„	Cuddapah	Temperature	13, 14, 17–20 and 24.	*For* "89·7, +1·3, 76·3, −0·1, 26·8, 94·2 and 41·6" *read* "89·0, +0·6, 75·9, −0·5, 26·1, 93·5 and 40·9" respectively.
„	Ditto	„	Kurnool	Pressure	4–7 and 9	*For* "29·141, +·023, 30·039, 29·221 and 29·047" *read* "29·153, +·035, 30·051, 29·233 and 29·059" respectively.
„	Ditto	„	Ditto	Temperature	13, 14, 17–20 and 24.	*For* "90·4, +1·7, 74·5, +0·7, 31·9, 95·2 and 46·1" *read* "89·7, +1·0, 74·1, +0·4, 31·2, 94·5 and 45·4" respectively.
xv	Ditto	„	Bidar	Rainfall	48	*For* "1·10" *read* "0·10".
xviii	Ditto	„	Kabul	Temperature	15	*For* "2·18" *read* "21·8".
„	Ditto	„	Kerman	Ditto	24	*For* "58·3" *read* "58·8".
xix	Ditto	„	Gyantse	Wind Velocity	36	*For* "8·4" *read* "3·7".
xxiv	Ditto	C	Kirmanshah	Temperature	13	*For* "9·0" *read* "−9·0".
xxxi	February 1912	B	Central Provinces	Rainfall	18 and 20	*For* "1·86 and +1·52" *read* "1·77 and +1·43" respectively.
xxxiii	Ditto	„	Sibsagar	Ditto	52	*For* "+2·09" *read* "+1·09".

Corrigenda in the India Monthly Weather Reviews for the year 1912.

TABLES A, B & C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
xxxiv	February 1912	B	Jalpaiguri	Pressure	4—7 and 9	*For* "29·708, — ·018, 29·964, 29·855 and 29·464" *read* "29·717, — ·009, 29·973, 29·864 and 29·473" respectively.
„	Ditto	„	Monghyr	Temperature	15, 17 and 19	*For* "58·7, 69·9 and 22·4" *read* "58·8, 70·0 and 22·3" respectively.
xxxvi	Ditto	„	Patiala	Pressure	4 and 6	*For* "29·135‡ and 29·972‡" *read* "29·128 and 29·963" respectively.
„	Ditto	„	Ditto	Temperature	12, 15, 17, 19 and 22—24.	*For* "56·0" *read* "54·9 and reject all the other readings."
„	Ditto	„	Kotah	Pressure	4—7 and 9	*For* "29·152, — ·034, 29·959?, 29·257 and 29·011" *read* "29·161, — ·025, 29·968, 29·266 and 29·020" respectively.
					Footnote	*Omit* "‡ mean of 26 days."
xxxviii	Ditto	„	Ahmadnagar	Ditto	4—7 and 9	*For* "27·833, — ·002?, 29·945, 27·917 and 27·772" *read* "27·827, — ·008, 29·939, 27·911 and 27·766" respectively.
„	Ditto	„	Sutna	Temperature	12, 15—19, 22 and 24.	*For* "64·6, 55·6, + 3·3, 69·1, + 3·1, 26·9, 48·8, and 42·5" *read* "63·7, 55·0, + 2·7, 68·7, + 2·8, 27·5, 48·2 and 43·1" respectively.
„	Ditto	„	Akola	Ditto	15 to 19, 22 and 24.	*For* "60·6, + 3·1, 76·4, + 2·3, 31·5, 52·1 and 46·6" *read* "61·0, + 3·5, 76·6, + 2·5, 31·1, 52·5 and 46·2" respectively.
xl	Ditto	„	Coimbatore	Pressure	4—7 and 9	*For* "28·663, — ·007, 29·948, 28·739 and 28·577" *read* "28·674, + ·004, 29·959, 28·750 and 28·588" respectively.
„	Ditto	„	Cuddapah	Temperature	13, 14, 17—20 and 24.	*For* "96·0, + 0·9, 84·1, + 2·0, 23·8, 101·2 and 33·1" *read* "95·3, + 0·2, 83·7, + 1·7, 23·1, 100·5 and 32·4" respectively.
„	Ditto	„	Kurnool	Pressure	4—7 and 9	*For* "29·046, — ·018, 29·921, 29·121 and 28·950" *read* 29·058, — ·006, 29·933, 29·133 and 28·962" respectively.
„	Ditto	„	Ditto	Temperature	13, 14, 17—20 and 24.	*For* "94·9, + 0·4, 82·6, + 2·9, 24·6, 100·7 and 39·6" *read* "94·2, — 0·3, 82·3, + 2·6, 23·9, 100·0 and 38·9" respectively.
xlii	Ditto	„	Sarain	Pressure	4 and 6	*For* "23·157 and 23·119" *read* "23·158 and 23·120" respectively.
xliii	Ditto	„	Dras	Hygrometry	42	*Insert* "+ 2."
xliv	Ditto	„	Gyantse	Pressure	4 and 6	*For* "17·024 and 16·985" *read* "17·024‡ and 16·985‡" respectively.
„	Ditto	„	Kashgar	Temperature	12	*For* "27·4" *read* "27·2."
„	Ditto	„	Kabul	Pressure	4 and 6	*For* "24·292 and 24·261" *read* "24·297‡ and 24·266‡" respectively.
					Footnote	*Insert* "‡ mean of 23 days and ¶¶ mean of 25 days" respectively.
xlv	Ditto	„	Ditto	Rainfall	51	*For* "1·" *read* "1·57".
„	Ditto	„	Babrein	Ditto	51	*For* "0·5" *read* "0·59".
l	Ditto	C	Kargil	Temperature	13	*For* "16·0" *read* "—16·0".
lv	March 1912	A	Bangalore	Rainfall	53 and 54	*For* "0·56 and 0·56" *read* "1·56 and 1·56" respectively.
lviii	Ditto	B	Victoria Point	Pressure	6	*For* "29·906" *read* "29·903".

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TABLES A, B & C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
lx	March 1912	B	Jalpaiguri	Pressure	4—7 and 9	*For* " 29·629, + ·004, 29·382, 29·757 and 29·448 " *read* " 29·638, + ·013, 29·391, 29·766 and 29·457 " respectively.
"	Ditto	"	Mongbyr	Temperature	15, 17 and 19	*For* " 62·8, 76·0 and 26·5 " *read* " 62·6, 75·9 and 28·7 " respectively.
lxii	Ditto	"	Kotah	Pressure	4—7 and 9	*For* " 29·035, —·008, 29·885?, 29·245 and 28·588 " *read* " 29·104, + ·001, 29·894, 29·254 and 28·597 " respectively.
lxiv	Ditto	"	Ahmadnagar	Ditto	4—7 and 9	*For* " 27·813, + ·022, 29·887, 27·880 and 27·738 " *read* " 27·807, + ·016, 29·881, 27·874 and 27·732 " respectively.
"	Ditto	"	Akola	Temperature	15—19, 22 and 24.	*For* " 65·4, —0·6, 83·1, + 0·5, 35·4, 50·1 and 58·6 " *read* " 65·8, —0·2, 83·3, + 0·7, 35·0, 50·5 and 58·2 " respectively.
lxvi	Ditto	"	Coimbatore	Pressure	4—7 and 9	*For* " 28·621, —·008, 29·896, 28·637 and 28·553 " *read* " 28·632, + ·003, 29·907, 28·693 and 28·563 " respectively.
"	Ditto	"	Cuddapah	Temperature	13, 14, 17—20 and 24.	*For* " 103·9, + 2·2, 90·3, + 1·9, 27·2, 109·2 and 43·1 " *read* " 103·2, + 1·5, 89·9, + 1·6, 26·5, 108·5 and 42·4 " respectively.
"	Ditto	"	Kurnool	Pressure	4—7 and 9	*For* " 29·002, + ·002, 29·865, 29·073 and 28·923 " *read* " 29·014, + ·014, 29·877, 29·090 and 28·935 " respectively.
"	Ditto	"	Ditto	Temperature	13, 14, 17—20 and 24.	*For* " 102·2, + 1·3, 87·6, + 1·4, 29·2, 106·7 and 40·6 " *read* " 101·5, + 0·6, 87·3, + 1·1, 28·5, 106·0 and 39·9 " respectively.
lxxi	Ditto	,,	Singapore	Wind direction	25—30 and 34	*For* " 9, 5, 15, 1, 1 and N 39 E " *read* " blank, 9, 5, 15, 1, 1 and N 40° E " respectively.
"	Ditto	"	Ditto	Wind velocity and steadiness.	36 and 39	*For* " 6·4* and 61 " *read* " 4·7* and 62 " respectively.
"	Ditto	"	Penang	Ditto	36 and 39	*For* " 12·3* and 90 " *read* " 8·5* and 92 " respectively.
"	Ditto	"	Baghdad	Wind velocity	38	*For* " + 2·9 " *read* " + 2·8 ".
lxxxi	April 1912	A	Calcutta	Rainfall	53	*For* " 46 " *read* " 2·46 ".
lxxxiii	Ditto	B	Punjab	Ditto	18 and 20	*For* " 0·89 and " + 0·47 " *read* " 0·90 and + 0·48 " respectively.
lxxxiv	Ditto	"	Jalpaiguri	Pressure	4—7 and 9	*For* " 29·626, + ·077, 29·873, 29·790 and 29·502 " *read* " 29·635, + ·086, 29·882, 29·799 and 29·511 " respectively.
xc	Ditto	"	Ahmadnagar	Ditto	4—7 and 9	*For* " 27·788, + ·045, 29·811, 27·876 and 27·711 " *read* " 27·782, + ·039, 29·805, 27·870 and 27·705 " respectively.
"	Ditto	"	Akola	Temperature	15 to 19, 22 and 24.	*For* " 75·5, + 0·7, 91·0, + 0·7, 31·1, 60·6 and 51·1 " *read* " 75·9, + 1·1, 91·2, + 0·9, 30·7, 61·0 and 50·7 " respectively.
xcii	Ditto	"	Coimbatore	Pressure	4—7 and 9	*For* " 28·596, + ·032, 29·857, 28·705 and 28·509 " *read* " 28·607, + ·043, 29·868, 28·716 and 28·520 " respectively.
"	Ditto	"	Cuddapah	Temperature	13, 14, 17—20 and 24.	*For* " 106·1, + 0·9, 94·2, + 1·2, 23·8, 109·2 and 33·1 " *read* " 105·4, + 0·2, 93·9, + 0·9, 23·1, 108·5 and 32·4 " respectively.
"	Ditto	"	Kurnool	Pressure	4—7 and 9	*For* " 28·979, + ·037, 29·829, 29·073 and 28·865 " *read* " 28·991, + ·049, 29·841, 29·085 and 28·877 " respectively.

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TABLES A, B & C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
xcii	April 1912	B	Kurnool	Temperature	13, 14, 17—20 and 24.	*For* "104·5, +0·9, 92·8, +1·9, 23·5, 107·2 and 34·1" *read* "103·8, +0·2, 22·4, +1·6, 22·8, 106·5 and 33·4" respectively.
xciv	Ditto	„	Singapore	Wind velocity	36	*For* "4·8†" *read* "3·5†".
„	Ditto	„	Penang	Ditto	36	*For* "10·2†" *read* "7·4†".
xcvi	Ditto	„	Ispahan	Pressure	4	*For* "24·625" *read* "24·265".
xcvii	Ditto	„	Ditto	Wind steadiness	40	Insert "—17".
„	Ditto	„	Ditto	Hygrometry	42 and 44	Insert "—13 and —·092." respectively.
„	Ditto	„	Ditto	Cloud	46	Insert "—0·7".
„	Ditto	„	Tehran	Wind steadiness	40	Insert "+15".
„	Ditto	„	Ditto	Hygrometry	42 and 44	Insert "+9 and +·016" respectively.
„	Ditto	„	Ditto	Cloud	46	Insert "—1·3".
ci	Ditto	C	Rangpur	Rainfall	38	*For* "6" *read* "9".
„	Ditto	„	Ranigan‡	Ditto	41	*For* "0·9" *read* "0·98".
ciii	Ditto	„	Sonamarg	Station	48	*For* "Sonamaraug" *read* "Sonamarg".
cxi	May 1912	B	Punjab	Rainfall	18 and 20	*For* "0·29 and —0·31" *read* "0·30 and —0·30" respectively.
cxii	Ditto	„	Jalpaiguri	Pressure	4—7 and 9	*For* "29·515, +·034, 29·757, 29·668 and 29·320" *read* "29·524, +·043, 29·766, 29·677 and 29·329" respectively.
cxiv	Ditto	„	Monghyr	Temperature	13, 17 and 19	*For* "98·5†, 87·2† and 22·5" *read* "98·3, 87·1 and 22·3" respectively.
„	Ditto	„	Buxar	Station	2	*For* "Buxar" *read* "Buxar‡".
cxv	Ditto	„	Monghyr	Cloud	45	*For* "1·6‡" *read* "1·8".
„	Ditto	„	Puri	Hygrometry	43	*For* "·799" *read* "·999".
cxviii	Ditto	„	Ahmadnagar	Pressure	4—7 and 9	*For* "27·716, +·023, 29·735, 27·615 and 27·623" *read* "27·710, +·017, 29·729, 27·609 and 27·617" respectively.
cxix	Ditto	„	Hassan	Cloud	45	*For* "4" *read* "4·2".
cxx	Ditto	„	Coimbatore	Pressure	4—7 and 9	*For* "28·518, +·005, 29·778, 28·600 and 28·466" *read* "28·529, +·016, 29·789, 28·611 and 28·477" respectively.
„	Ditto	„	Cuddapah	Temperature	13, 14, 17—20 and 24.	*For* "108·1, +1·8, 96·7, +1·8, 22·8, 112·2 and 31·6" *read* "107·4, +1·1, 96·3, +1·5, 22·1, 111·5 and 30·9" respectively.
„	Ditto	„	Kurnool	Pressure	4—7 and 9	For "28·902, +·014, 29·748, 28·995 and 28·822" read "28·914, +·026, 29·760, 29·007 and 28·834" respectively.
„	Ditto	„	Ditto	Temperature	13, 14, 17—20 and 24	*For* "106·2, +1·4, 94·0 +1·1, 24·3, 110·7 and 36·6" *read* "105·5, +0·7, 93·7, +0·8, 23·6, 110·0 and 35·9" respectively.
cxxii	Ditto	„	Sarain	Pressure	4 and 6	*For* "23·143 and 23·110" *read* "23·151 and 23·113" respectively.
„	Ditto	„	Kalabagh	Ditto	4, 6 and 9—11	*For* "20·144, 20·106, 20·061, 21st and ·177" *read* "20·148, 20·110, 20·062, 22nd and 176" respectively.
„	Ditto	„	Penang	Temperature	13 and 22	*For* "9·00 and 7·00" *read* "90·0 and 70·0" respectively.

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TABLES A, B & C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
cxxiii	May 1912	B	Kodaikanal	Rainfall	50, 52, 53 and 55	*For* "5·94, + 0·08, 5·94 and + 0·08" *read* "5·95, + 0·09, 5·95 and + 0·09" respectively.
„	Ditto	„	Singapore	Ditto	50	*For* "82·8" *read* "8·28".
cxxiv	Ditto	„	Kabul*	Pressure	4, 6—8 and 11	*For* "24·243, 24·912, 24·322, 30th and ·178" *read* "24·255, 24·224, 24·336, 27th and ·192" respectively.
cxxv	Ditto	„	Meshed	Cloud	46	Insert "+1·9".
„	Ditto	„	Ispahan	Wind steadiness	40	Insert "—42".
„	Ditto	„	Ditto	Hygrometry	42 and 44	Insert "—22 and —·161" respectively.
„	Ditto	„	Ditto	Cloud	46	Insert "—0·2".
„	Ditto	„	Tehran	Wind steadiness	40	Insert "—10".
„	Ditto	„	Ditto	Hygrometry	42 and 44	Insert "+7 and +·009" respectively.
„	Ditto	„	Ditto	Cloud	46	Insert "—1·7".
„	Ditto	„	Baghdad	Wind steadiness	40	Insert "—19".
„	Ditto	„	Ditto	Hygrometry	42 and 44	Insert "—13 and —·111" respectively.
„	Ditto	„	Ditto	Cloud	46	Insert "+0·9".
cxxxiii	Ditto	C	Seistan	Rainfall	38	*For* "10." *read* "0".
cxxxvi	June 1912	A	Jaipur	No. of subdivision	1	*For* "1" *read* "18".
cxxxix	Ditto	B	United Provinces	Rainfall	18 and 20	*For* "1·62 and —3·39" *read* "1·63 and — 3·38" respectively.
„	Ditto	„	Punjab	Ditto	11	*For* "0·56 and — 1·45" *read* "0·58 and — 1·49" respectively.
„	Ditto	„	Central Provinces	Ditto	11	*For* "2·32 and —4·49" *read* "2·38 and —4·43" respectively.
cxl	Ditto	„	Jalpaiguri	Pressure	4—7 and 9	*For* "29·351, —·018, 29·593, 29·540 and 29·163" *read* 29·360, —·009, 29·602, 29·549 and 29·172" respectively.
cxlvi	Ditto	„	Ahmadnagar	Ditto	4—7 and 9	*For* 27·600, +·007, 29·629, 27·712 and 27·481," *read* "27·594, +·001, 29·623, 27·706 and 27·475" respectively.
cxlvii	Ditto	„	Hassan	Rainfall	48	*For* "10·4" *read* "10·40".
cxlviii	Ditto	„	Trichinopoly	Temperature	15	*For* "73·7" *read* "78·7".
„	Ditto	„	Coimbatore	Pressure	4—7 and 9	*For* "28·465, —·017, 29·732, 28·524, and 28·397" *read* "28·476, —·006, 29·743, 28·535 and 28·408" respectively.
„	Ditto	„	Cuddapah	Temperature	13, 14, 17—20 and 24	*For* "104·3, + 4·0, 93·7, + 3·3, 21·2, 110·7 and 35·6" *read* "103·6, + 3·3, 93·4, + 2·9, 20·5, 110·0 and 34·9" respectively.
„	Ditto	„	Kurnool	Pressure	4—7 and 9	*For* "28·819, —·013, 29·669, 28·914 and 28·749" *read* "28·831, —·001, 29·681, 28·926 and 28·761" respectively.
„	Ditto	„	Ditto	Temperature	13, 14, 17—20 and 24	*For* "101·3, + 4·6, 90·2, + 3·4, 22·2, 108·7 and 36·6" *read* "100·6, + 3·9, 89·6, + 3·1, 21·5, 108·0 and 35·9" respectively.
cl	Ditto	„	Kalabagh	Pressure	4 and 6	*For* "20·074 and 20·036" *read* "20·076 and 20·038" respectively.
„	Ditto	„	Penang	Temperature	24	*For* "20·3" *read* "20·0."

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Page.	Part.	Table.	Meteorological province or station.	Heading.	Column No.	Correction.
cl	June 1912	B	Kabul	Pressure	4, 6 and 9—11	*For* "24·215, 24·184, 24·099, 25*th and ·231" *read* "24·207, 24·176, 24·035, 24th and ·295" respectively.
cli	Ditto	,,	Kodaikanal	Rainfall	53 and 55	*For* "9·70 and —0·02" *read* "9·71 and —0·01" respectively.
,,	Ditto	,,	Singapore	Wind velocity	36	*For* "5·0" *read* "3·6".
,,	Ditto	,,	Penang	Ditto	36	*For* "11·6" *read* "8·5".
,,	Ditto	,,	Meshed	Cloud	46	Insert "+0·1".
cliii	Ditto	,,	Ispahan	Wind steadiness	40	Insert "—24".
,,	Ditto	,,	Ditto	Hygrometry	42 and 44	Insert "—10 and —·110".
,,	Ditto	,,	Ditto	Cloud	46	Insert "+0·5".
,,	Ditto	,,	Tehran	Wind steadiness	40	*Insert* "+4".
,,	Ditto	,,	Ditto	Hygrometry	42 and 44	*Insert* "+8 and +·056".
,,	Ditto	,,	Ditto	Cloud	46	*Insert* "+0·4".
clvi	Ditto	C	Gosaundo†	Temperature	4, 6, 8 and 10	*For* "91·6, 74·9, 83·3 and 16·7" *read* "91·5, 76·0, 83·7 and 15·5." respectively.
					Footnote	*Omit* "† observations of 25 days".
clvii	Ditto	,,	Ditto	Hygrometry	32 and 34	*For* "·79 and ·943" *read* "80‡ and ·955‡" respectively.
,,	Ditto	,,	Ditto	Rainfall	38, 41, 43, 44 and 46.	*For* "12, 16·66, +4·63, 25·43 and +5·88" *read* "13, 19·92, +7·89, 28·69 and +9·14" respectively.
					Footnote	*Insert* "‡ mean of 29 days".
clxiv	July 1912	A	Bombay	Pressure	4 and 5	*For* "29·643 and 29·596" *read* "29·663 and 29·599" respectively.
clxv	Ditto	,,	Dodabetta	Rainfall	53	*For* "71·6*†" *read* "7·16."
clxvii	Ditto	B	Punjab	Ditto	18 and 20	*For* "5·79 and —0·01" *read* "5·81 and +0·01" respectively.
,,	Ditto	,,	Central Provinces	Ditto	18 and 20	*For* "13·58 and +·083" *read* "13·59 and +0·84" respectively.
clxviii	Ditto	,,	Gauhati	Pressure	9	*For* "29·536" *read* "29·329".
,,	Ditto	,,	Sangor Island	Temperature	16	*For* "—0·1" *read* "—1·0".
,,	Ditto	,,	Jalpaiguri	Pressure	4—7 and 9	*For* "29·334, +·003, 29·572, 29·429 and 29·150" *read* "29·343, +·012, 29·581, 29·438 and 29·159" respectively.
clxix	Ditto	,,	Barisal	Rainfall	51	*For* "5·23" *read* "15·23".
,,	Ditto	,,	Mymensingh	Ditto	52	*For* "—6·47" *read* "—6·57".
clxxi	Ditto	,,	Ranchi	Wind steadiness	40	*For* "+" *read* "+5".
clxxiv	Ditto	,,	Ahmadnagar	Pressure	4—7 and 9	*For* "27·554, —·026, 29·602, 27·650 and 27·417" *read* "27·548, —·032, 29·596, 27·644 and 27·411" respectively.
clxxvi	Ditto	,,	Coimbatore	Ditto	4—7 and 9	*For* "28·459, —·039, 29·780, 28·534 and 28·394" *read* "28·470, —·028, 29·741, 28·545 and 28·405" respectively.
,,	Ditto	,,	Cuddapah	Temperature	13, 14, 17—20 and 24.	*For* "95·1, —0·2, 87·1, +0·5, 15·9, 101·2 and 26·6" *read* "94·4, —0·9, 86·8, +0·2, 15·2, 100·5 and 25·9" respectively.

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TABLES A, B & C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
clxxvi	July 1912	B	Kurnool	Pressure	4—7 and 9	*For* "28·798, —·044, 29·657, 28·879 and 28·684" *read* "28·810, —·032, 29·669, 28·891 and 28·696" respectively.
„	Ditto	„	Ditto	Temperature	13, 14, 17—20 and 24.	*For* "91·0, —0·4, 83·1, +0·1, 15·8, 96·7 and 26·1" *read* "90·3, —1·1, 82·7, —0·3, 15·1, 96·0 and 25·4" respectively.
clxxix	Ditto	„	Cherrapunji	Rainfall	49	*For* "—1·80" *read* "—1·30."
„	Ditto	„	Kodaikanal	Ditto	53 and 55	*For* "12·99 and —1·74" *read* "13·00 and —1·73" respectively.
„	Ditto	„	Penang	Wind direction	33	*Insert* "4".
„	Ditto	„	Amini Divi	Hygrometry	42 and 44	*Insert* "—3 and —·017" respectively.
„	Ditto	„	Ditto	Cloud	46	*Insert* "+0·1".
clxxxi	Ditto	„	Meshed	Ditto	46	*Insert* "+0·5".
„	Ditto	„	Ispahan	Hygrometry	42 and 44	*Insert* "—7 and —·036" respectively.
„	Ditto	„	Ditto	Cloud	46	*Insert* "—0·5".
„	Ditto	„	Tehran	Hygrometry	42 and 44	*Insert* "+5 and +·046" respectively.
„	Ditto	„	Ditto	Cloud	46	*Insert* "—0·5".
clxxxiv	Ditto	C	Goalundo (*c*)	Temperature	3, 4, 6, 8 and 10	*For* "84·0, 88·5, 78·3, 83·4 and 10·2" *read* "83·9, 88·6, 79·1, 83·3, and 10·5" respectively.
					2 and footnote	*Omit* "(*c*) observations of 29 days."
„	Ditto	„	Ditto	Hygrometry	34	*For* "1·015" *read* "1·016".
„	Ditto	„	Ditto	Rainfall	33, 41, 43, 44, 46 and 47.	*For* "13, 5·32, —6·40, 30·75 E, —0·52 and 1·19" *read* "15, 3·04, —3·68, 36·73, +5·46 and 2·02" respectively.
					Footnote	*Omit* "E Rainfall 1st and 2nd July not included".
clxxxix	Ditto	„	Seistan	Wind velocity	27	*For* "16·11" *read* "16·1".
cxcvi	August 1912	B	Sibsagar	Temperature	21	*Insert* "8th".
cxcviii	Ditto	„	Jalpaiguri	Pressure	4—7 and 9	*For* "29·383, —·006, 29·622, 29·474 and 29·262" *read* "29·392, +·003, 29·631, 29·483 and 29·271" respectively.
ccii	Ditto	„	Ahmadnagar	Ditto	4—7 and 9	*For* "27·627, —·009, 29·691, 27·715 and 27·522" *read* "27·621, —·015, 29·685, 27·709 and 27·516" respectively.
cciv	Ditto	„	Coimbatore	Ditto	4—7 and 9	*For* "28·494, —·022?, 29·766?, 28·557 and 28·423" *read* "28·505, —·011, 29·777, 28·568 and 28·434" respectively.
„	Ditto	B	Cuddapah	Temperature	13, 14, 17—20 and 24.	*For* "95·6, +1·9, 86·3, +1·5, 17·6, 101·9 and 28·3" *read* "94·9, +1·2, 86·5, +1·2, 16·9, 101·2 and 27·6" respectively.
ccvi	Ditto	„	Kurnool	Pressure	4—7 and 9	*For* "28·854, —·024, 29·718, 28·955 and 28·757" *read* "28·866, —·012, 29·730, 28·967 and 28·769" respectively.
„	Ditto	„	Ditto	Temperature	13, 14, 17—20 and 24.	*For* "90·4, +0·6, 82·1, +0·4, 16·5, 94·7 and 23·1" *read* "89·7, —0·1, 81·8, +0·1, 15·8, 94·0 and 22·4" respectively.
ccvii	Ditto	„	Muzaffarabad	Wind velocity	36	Reject the figure "5·3."
ccxxi	September 1912	A	Ootacamund	Cloud	35	*For* "8·5" *read* "8·9."

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TABLES A, B & C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Reading.	Column No.	Correction.
ccxxiii	September 1912.	B	Central India	Rainfall	18 and 20	*For* "3·57 and —2·59" *read* "4·76 and —1·40" respectively.
ccxxiv	Ditto	,,	Jalpaiguri	Pressure	4—7 and 9	*For* "29·503, +·009, 29·743, 29·659 and 29·328" *read* "29·512, +·018, 29·752, 29·668 and 29·337" respectively.
ccxxvi	Ditto	,,	Gorakhpur	Temperature	18	*For* "—2·37" *read* "—2·3?".
ccxxix	Ditto	,,	Sialkot	Wind direction	25	*For* "1" *read* "13".
,,	Ditto	,,	Ditto	Cloud	45	*For* "0·8" *read* "0·2".
ccxxx	Ditto	,,	Ahmadnagar	Pressure	4—7 and 9	*For* "27·726, +·040, 29·732, 27·811 and 27·577" *read* "27·720, +·034, 29·776, 27·805 and 27·571" respectively.
ccxxxi	Ditto	,,	Khandwa	Rainfall	50	*For* "8·74" *read* "2·74".
ccxxxii	Ditto	,,	Madras	Station	2	*For* "V—Madras" *read* "XV—Madras."
,,	Ditto	,,	Pudukkottai	Pressure	6	*For* "29·806" *read* "29·806".
,,	Ditto	,,	Coimbatore	Ditto	4—7 and 9	*For* "28·531, —·017, 29·806, 28·670 and 28·444" *read* "28·542, —·006, 29·817, 28·681 and 28·455" respectively.
,,	Ditto	,,	Cuddapah	Temperature	13, 14, 17—20 and 24.	*For* "94·6, +2·1, 85·1, +1·3, 18·2, 100·2 and 29·4" *read* "93·9, +1·4, 84·8, +1·0, 17·5, 99·5 and 28·7" respectively.
,,	Ditto	,,	Kurnool	Pressure	4—7 and 9	*For* "28·921, +·001, 29·784, 28·963 and 28·810" *read* "28·933, +·013, 29·796, 28·995 and 28·822" respectivly.
,,	Ditto	,,	Ditto	Temperature	13, 14, 17—20 and 24.	*For* "92·3, +3·1, 83·4, +2·3, 17·7 97·7 and 27·1" *read* "91·6, +2·4, 83·1, +2·9, 17·0, 97·0 and 26·4" respectively.
ccxxxiv	Ditto	,,	Pharijong	Ditto	12	*For* "52·1" *read* "51·1".
,,	Ditto	,,	Gangtok	Pressure	4 and 6	*For* "24·575‡ and 24·530‡" *read* "24·581‡ and 24·536‡" respectively.
ccxxxv	Ditto	,,	Pharijong	Hygrometry	41 and 43	*For* "67 and ·263" *read* "71 and ·271" respectively.
,,	Ditto	,,	Gangtok	Wind velocity	36	*For* "1·2" *read* "0·6".
ccxli	Ditto	C	Dam Dim	Rainfall	38, 40, 41, 43, 44, 46 and 47.	Insert "16, —2·7, 20·33, —0·46, 123·23, —11·70 and 7·05" respectively.
ccxliv	Ditto	,,	Chumbi	Temperature	13	*For* "30·7" *read* "36·7".
ccxlv	Ditto	,,	Poo	Rainfall	40	*For* "2·7" *read* "+2·7".
,,	Ditto	,,	Kailang	Ditto	38, 40, 41, 43 and 47.	Insert "1, —1·7, 0·46, —1·47 and 0·39" respectively.
,,	Ditto	,,	Chumbi	Rainfall	44	Insert "19·69".
ccli	October 1912	B	Sind	Hygrometry	13	*For* "—2" *read* "+7".
cclii	Ditto	,,	Jalpaiguri	Pressure	4—7 and 9	*For* "29·662, +·017, 29·908, 29·763 and 29·514" *read* "29·671, +·026, 29·917, 29·772 and 29·523" respectively.
ccliii	Ditto	,,	Silchar	Rainfall	56	Insert "1·88".
ccliv	Ditto	,,	Benares	Pressure	4—7 and 9	*For* 29·671, +·032, 29·895, 29·770 and 29·519" *read* "29·679, +·040, 29·903, 29·778 and 29·527" respectively.

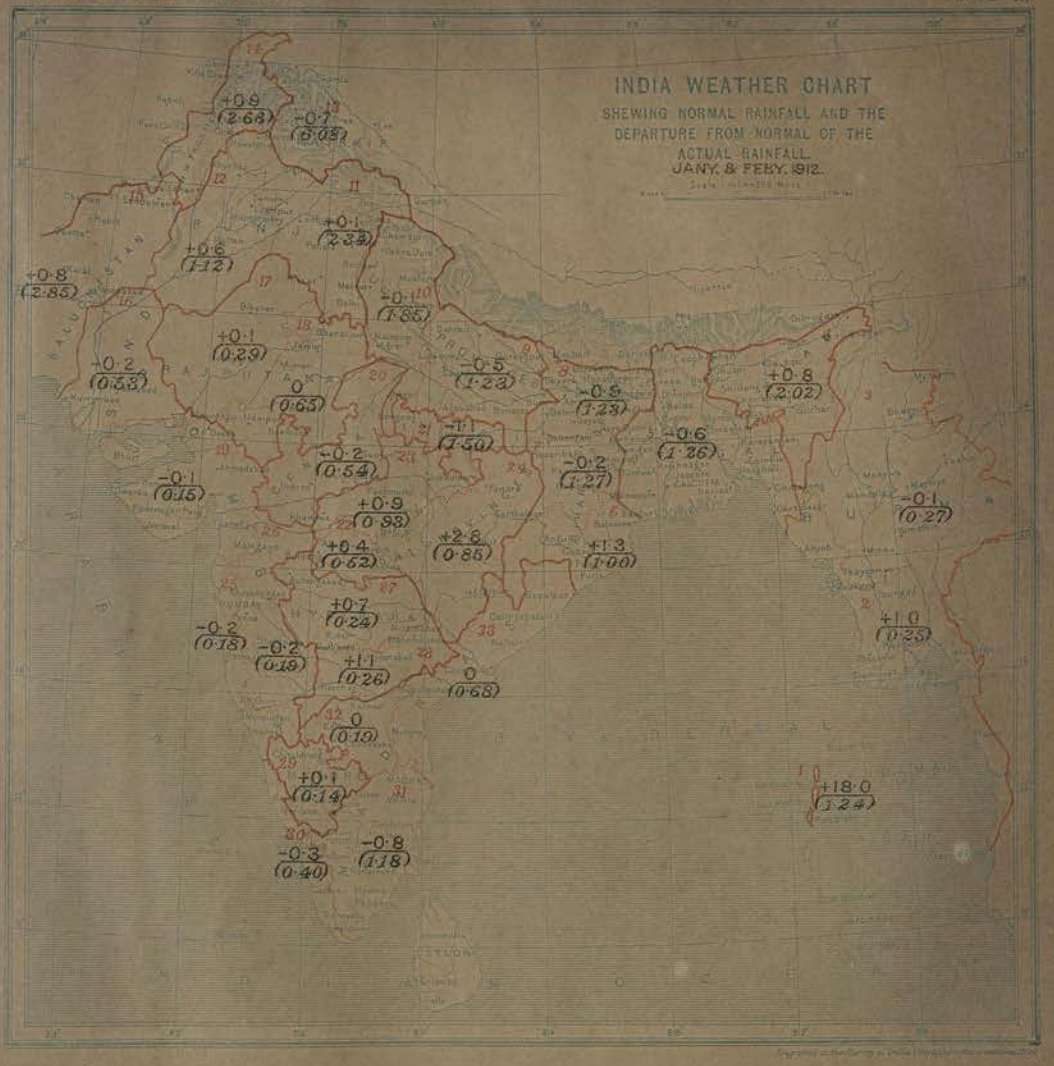
Corrigenda in the India Monthly Weather Reviews for the year 1912.

TABLES A, B & C—*concld.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
cclxiv	October 1912	B	Benares	Temperature	13, 14, 17—20 and 24.	*For* "93·6, +3·7, 79·7*d*, +·05, 27·9, 96·6 and 39·0" *read* "93·0, +3·1, 79·7, +0·3, 27·3, 96·0 and 38·4" respectively.
cclxv	Ditto	„	Meshed	Cloud	46	Insert "—0·7"
„	Ditto		Jask	Wind direction	33	*For* "80" *read* "8".
cclxix	Ditto	C	Dam Dim	Rainfall	38, 40, 41, 43, 44, 46 and 47.	Insert "9, +2·5, 6·54, +1·47, 134·77, —10·23 and 1·92" respectively.
„	Ditto	„	Kalchini	Ditto	41	*For* "6·6" *read* "6·66".
cclxx	Ditto	„	Ballia	Temperature	3	*For* "77" *read* "77·5".
cclxxiii	Ditto	„	Kailang	Rainfall	38, 40, 41, 43, and 47.	Insert "0, —1·2, 0, —0·52 and 0" respectively.
cclxxxi	November 1912	B	Mergui	Wind direction	28	Insert "2".
cclxxxii	Ditto	„	Jalpaiguri	Pressure	4—7 and 9	*For* "29·744, —·007, 29·999, 29·852 and 29·670" *read* "29·753, +·002, 30·008, 29·861 and 29·679" respectively.
cclxxxvi	Ditto	„	Ahmadnagar	Ditto	4—7 and 9	*For* "27·858, —·009, 29·964, 27·944 and 27·724" *read* "27·852, —·014, 29·958, 27·933 and 27·718" respectively.
cclxxxviii	Ditto	„	Negapatam	Ditto	11	*For* "·153" *read* "·163."
ccxcvii	Ditto	C	Dam Dim	Rainfall	38, 40, 41, 43, 44, 46 and 47.	*For* "2, +1·5, 0·72, +0·63, 108·62,** ? and 0·49" *read* "4, +3·5, 4·27, +4·18, 139·04, —6·05 and 3·45" respectively.
					Footnote	*Omit*** "Rainfall for September and October 1912 not included."
ccci	Ditto	„	Kailang	Ditto	38, 40, 41, 43, and 47.	Insert "2, +1·1, 0·50, +0·13 and 0·28" respectively.
ccevii	December 1912	B	Central Provinces	Ditto	18 and 20	*For* "0·04 and —0·26" *read* "0·05 and —0·25" respectively.
ccevili	Ditto	„	Jalpaiguri	Pressure	4—7 and 9	*For* "29·826, +·011, 30·081, 29·925 and 29·698" *read* 29·835, +·020, 30·090, 29·934 and 29·707" respectively.
ccexiv	Ditto	„	Ahmadnagar	Ditto	4—7 and 9	*For* "27·925, +·022, 30·067, 27·996 and 27·845" *read* "27·919, +·016, 30·061, 27·990 and 27·839" respectively.
ccexxvii	Ditto	C	Car Nicobar	Rainfall	38	*For* "19" *read* "9".

The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North



LITHO BY G.S.M.

The country is divided into 33 areas as shown in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall; the numbers above these give the departures from normal of the average actual rainfall over the divisions.

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18. Rajputana, East
19. Gujarat
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21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
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27. Hyderabad, North
28. Hyderabad, South
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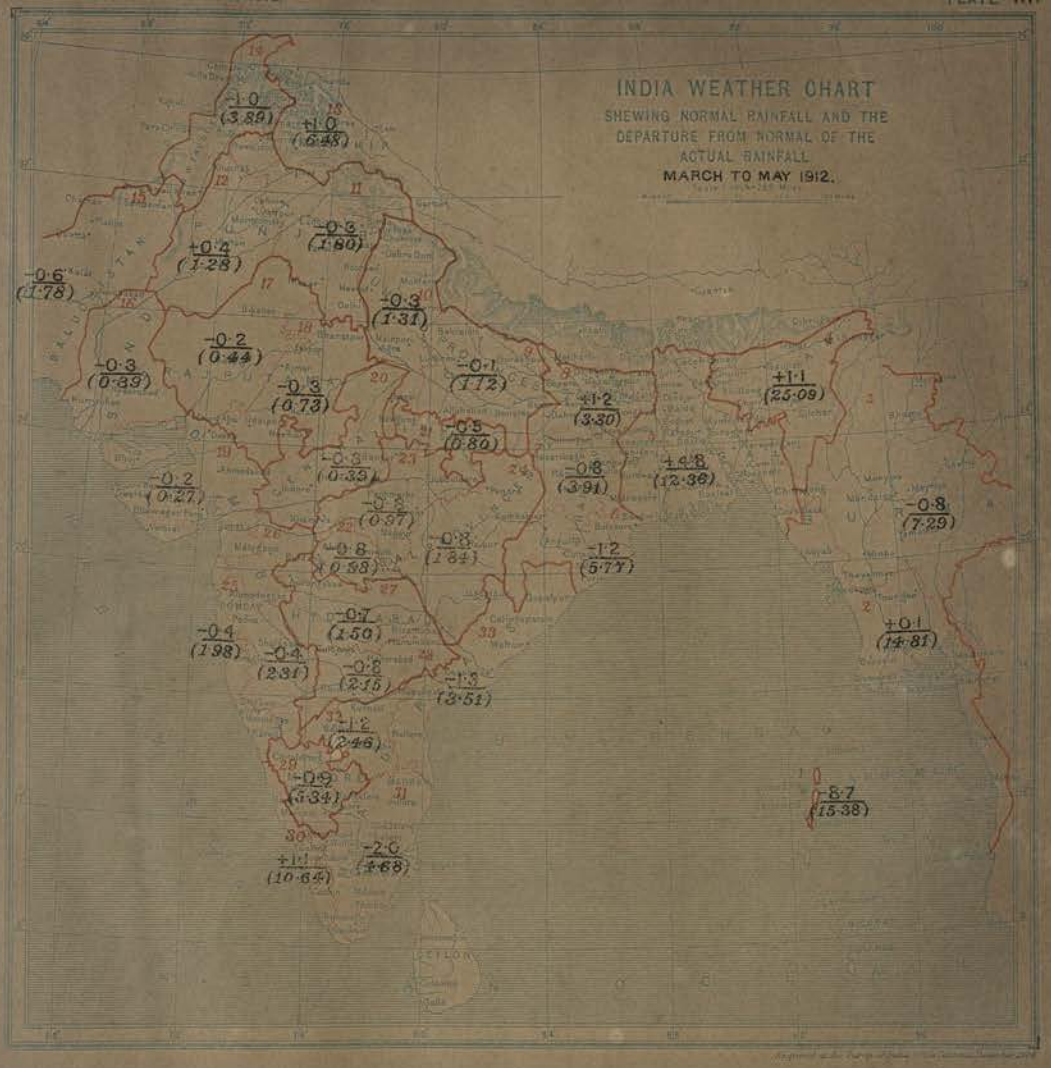
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North



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29. Mysore
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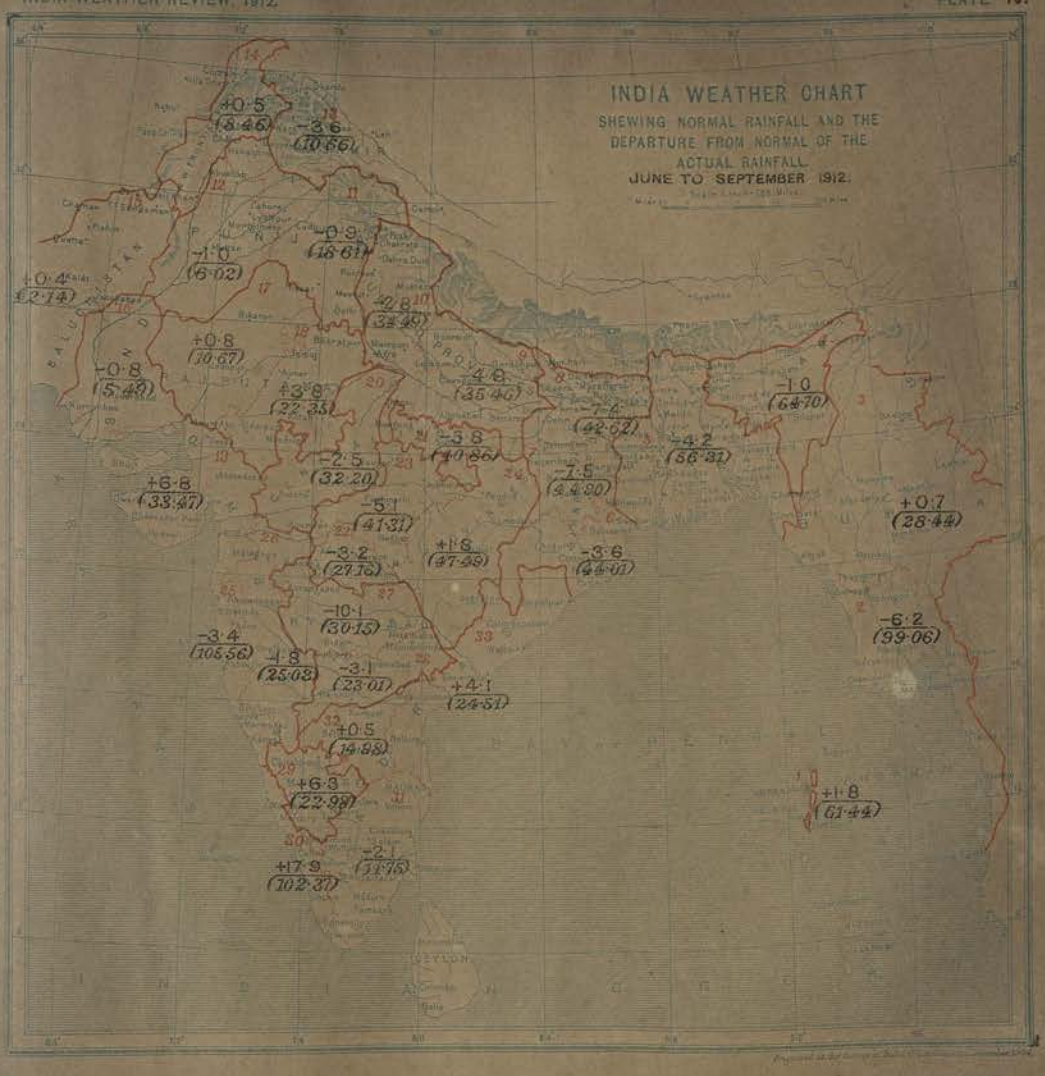
33. Madras Coast, North



LITHO. BY S.S.M.

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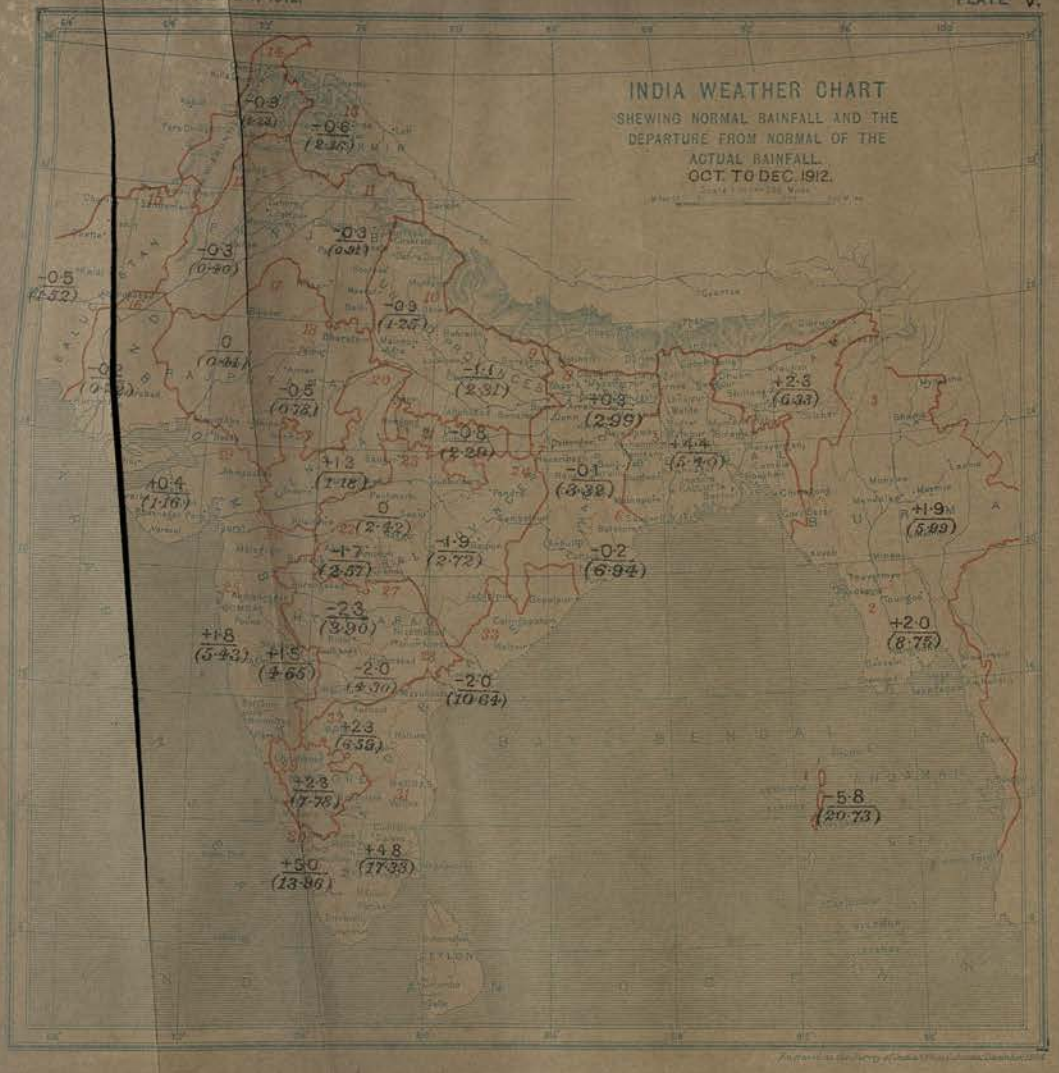

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30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

The further track of the storm of October in the Arabian Sea is defined by the following positions which lie outside the boundaries of the map:—

		Lat. N.	Long. E.
28th	October	15° - 45′	61° - 30′
29th	,,	15° - 30′	59° - 35′
30th	,,	14° - 10′	56° - 30′

(*This List of Publications is intended for Permanent Reference, and should be bound up with the Annual Summary*).

Publications of the India Meteorological Department.

(*Complete list, inclusive of those publications which are now out of print.*)

PUBLICATIONS OF THE INDIA METEOROLOGICAL DEPARTMENT.

The following is a list of the more important publications of the India Meteorological Department :—

The Indian Meteorologist's *Vade Mecum*, Part I, 2nd Edition. (1883). . . . . Price Rs. 3	Henry F. Blanford.
The Indian Meteorologist's *Vade Mecum*, Part II (1877) Price Rs. 5*	Ditto.
Instructions to Observers of the India Meteorological Department, 2nd Edition. (1902) . . . . . Price Rs. 3	Sir John Eliot.
Tables for the reduction of Meteorological Observations in India, 2nd Edition. (1889) . . . . . Price Rs. 2*	Henry F. Blanford.
Handbook of Cyclonic storms in the Bay of Bengal for the use of sailors, 2nd Edition, Vol. I—Text. (1900) . . Price Rs. 4	Sir John Eliot.
Handbook of Cyclonic storms in the Bay of Bengal for the use of sailors, 2nd Edition, Vol. II—Plates. (1901) . Price Rs. 1-8	Ditto.
Cyclone Memoirs, Part I—Bay of Bengal Cyclone of May 20th to 28th, 1887. (1888) . . . . . Price Re. 1*	Ditto.
Cyclone Memoirs, Part II—Bay of Bengal Cyclone of August 21st to 28th, 1888. (1890) . . . . . Price Rs. 3	Ditto.
Cyclone Memoirs, Part III—Bay of Bengal Cyclones of September 13th to 20th, and October 27th to 31st, 1888, and Arabian Sea Cyclone of November 6th to 9th, 1888. (1890) . Price Rs. 5	Ditto.
Cyclone Memoirs, Part IV—An enquiry into the nature and course of storms in the Arabian Sea and a catalogue and brief history of all recorded storms in the Arabian Sea from 1848—1889. (1891) . . . . . Price Rs. 3	W. L. Dallas.
Cyclone Memoirs, Part V—Account of three Cyclones in the Bay of Bengal and Arabian Sea during November, 1891. (1893) Price Rs. 3*	Sir John Eliot.
Report of the Midnapore and Burdwan Cyclone of the 15th and 16th of October, 1874. (1875) . . . . . Price Rs. 3*	W. G. Wilson.
Report of the Vizagapatam and Backergunge Cyclones of October, 1876. (1877) . . . . . Price Rs. 3*	Sir John Eliot.
Report on the Madras Cyclone of May, 1877 (1879) Price Rs. 3*	Ditto.
Monthly weather charts of the Bay of Bengal and adjacent sea north of the equator, showing mean pressure, winds and currents. (1886) . . . . . Price Rs. 5*	Henry F. Blanford.
Monthly weather charts of the Arabian Sea and the adjacent portion of the North Indian Ocean, showing mean pressure, winds and currents. (1888). . . . . Price Rs. 5	Sir John Eliot.
Charts of the Bay of Bengal and adjacent sea north of the equator, showing the specific gravity, temperature and currents of the sea surface. (1887) . . . . . Price Rs. 1-8	W. L. Dallas.
Climatological Atlas of India (1906). Price Rs. 27 or 36 shillings .	Sir John Eliot.
Meteorological Atlas of the Indian seas and the north Indian Ocean (1908) . . . . Price Rs. 13 or 17 shillings 6 pence	W. L. Dallas.
Daily weather reports and charts of the Indian monsoon area for the years 1893 to 1899 . . Price, each month, Re. 1 *	Departmental.
Normal weather or pilot charts of the Indian monsoon area for 8 A.M. for each month, November, 1900, to August 1908† Price, each month, Annas 4.	Ditto.
Reports on the Meteorology of India for the years 1875—1890 (16 volumes)‡ . . . . . Price each Rs. 10	Ditto.

Indian Meteorological Memoirs, Vol. I, containing :—

Part I, comprising— On the winds of Calcutta—An analysis of ten years' hourly observations of the wind vane and four years' anemograms. The meteorology and climate of Yarkhand and Kashgar, being chiefly a discussion of registers kept by Dr. J. Scully in 1874-75. The diurnal variation of the barometer at Simla. Price Rs. 3*	Henry F. Blanford.
Part II, comprising— Storms in Bengal during the year 1876, accompanied with increased atmospheric pressure and the apparent reversal of the normal diurnal oscillation of the barometer . . .	Sir John Eliot.
On the rainfall of Benares considered in relation to the prevailing winds	S. A. Hill.
On the diurnal variation of the barometer at Indian stations, Part I ; Calcutta and Hazaribagh . . . . . Price Rs. 3*	Henry F. Blanford.
Part III, comprising— Variation of rainfall in Northern India . . . . . Meteorological and hypsometrical observations in Western Tibet, recorded by Dr. J. Scully, with a discussion . . . . . Price Rs. 3	S. A. Hill. Henry F. Blanford.
Part IV, comprising— The winds of Kurrachee . . . . . Price Rs. 3	Fred. Chambers.
Part V, comprising— Some results of the meteorological observations taken at Allahabad during the ten years 1870—79 . . . . . The diurnal variation of the barometer at Indian stations, Part II, Goalpara, Patna and Leh . . . . . Price Rs. 3	S. A. Hill. Henry F. Blanford.
Part VI, comprising— The Meteorology of the North-West Himalaya . Price Re. 1	S. A. Hill.

Indian Meteorological Memoirs, Vol. II, containing :—

Part I, comprising— Account of the south-west monsoon storm of the 18th to the 24th of September, 1878, in the north of the Bay of Bengal . . List of cyclones on the West Coast of India and in the Arabian Sea up to the end of year 1881 . . . . . Price Rs. 2.	Sir John Eliot. Fred. Chambers.
Part II, comprising— Note on the foregoing list of cyclones and on the Gujarat landcyclone of July 11th to 13th, 1881 . . . . . On the temperature of North-Western India . . . . . Price Rs. 2	Henry F. Blanford. S. A. Hill.
Part III, comprising— Account of the south-west monsoon storms of the 8th to the 19th October, 1882, in the Bay of Bengal . . . Price Rs. 2	Sir John Eliot.
Part IV, comprising— Account of the south-west monsoon storms generated in the Bay of Bengal during the years 1877 to 1881 . . Price Rs. 2	Ditto.
Part V, comprising— Observations of temperature and humidity at a height of 40 feet above the ground at Alipore Observatory, Calcutta. Price Re. 1	S. A. Hill.

Indian Meteorological Memoirs, Vol. III, containing a full discussion of the rainfall of India and cognate subjects, complete in 4 parts. Price, each part, Rs. 2* — Henry F. Blanford.

Indian Meteorological Memoirs, Vol. IV, containing :—

Part I, comprising— Account of the south-west monsoon storm of the 12th to the 17th of May, 1884, in the Bay of Bengal and at Akyab . . . On the diurnal variation of the rainfall at Calcutta . . . . The meteorological features of the southern part of the Bay of Bengal . . . . . Price Rs. 3*	Sir John Eliot. Henry F. Blanford. W. L. Dallas.
Part II, comprising— The False Point cyclone of September 22nd, 1885. Price Rs. 2*	Sir Alexander Pedler.
Part III, comprising— On the ground temperature observations made at the old observatory, Allahabad . . . . . Price Rs. 1-8*	S. A. Hill.
Part IV, comprising— List and brief account of the south-west monsoon storms generated in the Bay of Bengal during the years 1882 to 1886. Price Rs. 3*	Sir John Eliot.
Part V, comprising— The cyclonic storms of November and December, 1886, in the Bay of Bengal . . . . . The cyclone of the 25th May to the 2nd June, 1881, in the Arabian Sea . . . . . Price Rs. 3	Ditto. Fred. Chambers.
Part VI, comprising— On temperature and humidity observations made at Allahabad at various heights above the ground . . . Price Rs. 1-8	S. A. Hill.
Part VII, comprising— The Arabian Sea cyclone of the 4th to the 13th June, 1887 . . On the Meteorology and Climatology of Northern Afghanistan Price Rs. 1-8*	Fred. Chambers. W. L. Dallas.
Part VIII, comprising— An account of the more important cold weather storms in India during the years 1876 to 1891 . . . . Price Rs. 3*	Sir John Eliot.

* Copies of publications to the price of which an asterisk is appended are out of print.
† Copies for June, August and September, 1901, and January to October, 1902, and August and September, 1903, are out of print.
‡ Copies for the years 1876, 1878 to 1881, 1884, 1887 and 1890 are out of print.

Continued on page c of this list.

Indian Meteorological Memoirs, Vol. V, containing :—

The discussion of the hourly observations made at Sibsagar, Goalpara, Patna, Hazaribagh, Dhubri, Roorkee, Allahabad, Lucknow, Agra, Leh, Deesa, Kurrachee and Lahore and at Simla. Complete in 10 parts . . Price, each part, Re. 1* — Parts I—VII, Henry F. Blanford. Parts VIII—X, Sir John Eliot.

Indian Meteorological Memoirs, Vol. VI, containing :—

Part I, comprising—
The relation between sunspots and weather as shown by meteorological observations taken on board ships in the Bay of Bengal during the years 1856 to 1879 . . . . . — W. L. Dallas.

Investigation into the mean temperature, humidity and vapour tension conditions of the Arabian Sea and Persian Gulf . . . Price Rs. 2* — Ditto.

Part II, comprising—
A preliminary discussion of certain oscillatory changes of pressure of long period and of short period in India . . Price Re. 1* — Sir John Eliot.

Part III, comprising—
The hot winds of Northern India . . . . . — Ditto.
An account of a storm developed in equatorial regions . . . Price Rs. 2* — W. L. Dallas.

Part IV, comprising—
Hailstorms in India during the period 1883—1897 with a discussion on their distribution . . . . . Price Re. 1* — Sir John Eliot.

Part V, comprising—
A discussion of the anemographic observations recorded at Simla during the period September, 1893, to August, 1896, and at Darjeeling during the period April, 1885, to December, 1896, and an investigation into the general features of the air movement in the Himalayan mountain area . . . . Price Re. 1* — Ditto.

Part VI, comprising—
A discussion of the anemographic observations recorded at Darjeeling during the period May, 1885, to May, 1896, and an investigation into the general features of the air movement in the Sikkim Himalayas . . . . . Price Re. 1* — Ditto.

Part VII, comprising—
A discussion of the thunderstorm observations recorded in 1897 at ten selected stations in India . . . . Price Re. 1* — W. L. Dallas.

Indian Meteorological Memoirs, Vol. VII, containing :—

Hourly observations of pressure, temperature, vapour tension, humidity, cloud, wind direction and velocity of wind taken at Trivandrum during the years 1853 to 1864. Complete in 7 parts. Price, each part, Rs. 1-8 — Sir John Eliot.

Indian Meteorological Memoirs, Vol. VIII, containing :—

Part I, comprising—
Hourly meteorological observations recorded at the Agustia observatory, during the period from January, 1856, to September, 1858, and from June to December, 1864. . . . Price Rs. 2 — Ditto.

Part II, comprising—
Hourly comparative meteorological observations taken at Trivandrum, Vannatheertham (eastern station), Kalliad (western station) and Agustia for the periods 23rd March to 20th April, 1857, 20th January to 19th February, 1859, 9th September to 8th October, 1864, and 2nd to 28th January, 1865, also at Cape Comorin from 23rd September to 13th November, 1858, and at Charatha and Kamala from 20th January to 19th February, 1859 . . . . . Price Re. 1 — Ditto.

Indian Meteorological Memoirs, Vol. IX, containing :—

The diurnal variation of atmospheric conditions at Chittagong, Cuttack, Jubbulpore, Pachmarhi, Nagpur, Poona, Belgaum, Bellary, Trichinopoly, Rangoon, Aden, Alipore and Jaipur. Complete in 9 parts . . . . Price, each part, Rs. 1-8* — Part I, Henry F. Blanford. Parts II—VII, Sir John Eliot. Part VIII, Douglas Archibald. Part IX, Sir John Eliot.

Indian Meteorological Memoirs, Vol. X, containing :—

Part I, comprising—
The discussion of the hourly meteorological observations recorded at Trivandrum during the years 1853—1864 . . Price Rs. 3 — Sir John Eliot.

Part II, comprising—
The discussion of the hourly meteorological observations recorded at Agustia during the years 1856—1858 and 1864 . Price Rs. 2 — Ditto.

Part III, comprising—
Discussion of the comparative hourly meteorological observations recorded at Trivandrum, Kalliad, Vanantheertham and Agustia for the periods 23rd March to 20th April, 1857, 20th January to 19th February, 1859, 9th September to 8th October, 1864, and 2nd to 28th January, 1865, and at Charatha and Kamala from 20th January to 19th February, 1859 . . . Price Rs. 2* — Sir John Eliot.

Part IV, comprising—
Plates I to LVII, title-page, table of contents and corrigenda of Volume X, Parts I, II and III of the Indian Meteorological Memoirs . . . . . Price Rs. 3 — Ditto.

Indian Meteorological Memoirs, Vol. XI, containing :—

Part I, comprising—
Observations recorded during the solar eclipse of 22nd January, 1898, at 154 meteorological stations in India . Price Re. 1* — Ditto.

Part II, comprising—
A discussion of the observations recorded during the solar eclipse of 22nd January, 1898, at 154 meteorological stations in India Price Rs. 3* — Ditto.

Part III, comprising—
Report on cloud observations and measurements in the plains of the North-Western Provinces of India during the period December, 1898, to March, 1900 . . . . . Price Re. 1* — E. G. Hill.

Indian Meteorological Memoirs, Vol. XII, containing :—

Part I, comprising—
A discussion on the failure of the south-west monsoon rains in 1899 . . . . . Price Re. 1* — W. L. Dallas.

Part II, comprising—
A discussion of the results of the hourly observations recorded at 29 stations in India given in Volumes V, IX and X of the Indian Meteorological Memoirs . . . . . Price Rs. 3* — Sir John Eliot.

Part III, comprising—
Discussion of the results of the hourly observations recorded at 29 stations in India given in Volumes V, IX and X of the Indian Meteorological Memoirs (Final chapter and plates) Price Rs. 3 — Ditto.

Part IV, comprising—
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Continued on page d of this list.

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‡ Copies for 1891 to 1905 are out of print.

§ Published continuously about four months after date. Copies for 1891-97, January, 1898 and January 1899 to May 1902, January to November (June expected) 1903 and January and March 1904 are out of print.

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GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

THE INDIA WEATHER REVIEW

FOR THE YEAR

1914

Published by Authority of the Government of India

UNDER THE DIRECTION OF

GILBERT T. WALKER, C.S.I., M.A., Sc.D., F.R.S.
Director General of Observatories.

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1916

ANNUAL SUMMARY, 1914.

INTRODUCTION.

THE present account of the meteorology of 1914 is based on revised data and is intended primarily for scientific reference; for those needing prompt information the Annual Supplement to the India Daily Weather Report was issued on January 9, 1915.

Several systems of territorial division of India have come into use from time to time for meteorological purposes, each having been adopted to meet the needs of some particular set of data. A certain amount of confusion had been found to result from the consequent want of uniformity of boundaries, and, with a view of obviating the inconvenience caused, the Government of India in 1907 authorised the adoption of the following system of division :—

Chief political divisions.	Sub-divisions.
	Bay Islands.
Burma	Lower Burma.
	Upper Burma.
Eastern Bengal and Assam	Assam.
	Eastern Bengal.
Bengal	Bengal.
	Orissa.
	Chota Nagpur.
	Bihar.
United Provinces	United Provinces, East.
	United Provinces, West.
Punjab	Punjab, East and North.
	Punjab, South-west.
North-West Frontier Province	North-West Frontier Province.
	Baluchistan.
Sind	Sind.
Rajputana	Rajputana, West.
	Rajputana, East.
Bombay	Gujarat.
	Konkan.
	Bombay Deccan.
Central India	Central India, West.
	Central India, East.
Central Provinces	Berar.
	Central Provinces, West.
	Central Provinces, East.
Hyderabad	Hyderabad, North.
	Hyderabad, South.
Mysore	Mysore.
Madras	Malabar.
	Madras, South-east.
	Madras, Deccan.
	Madras Coast, North.

From the 1st April 1912 a fresh territorial division of Eastern Bengal and Assam and Bengal was sanctioned by which Eastern Bengal was restored to Bengal, while Orissa, Chota Nagpur and Bihar were constituted into a separate province under the name of Bihar and Orissa. The present arrangement is shown below :—

Chief political divisions.	Sub-divisions.
Assam	Assam.
Bengal	Bengal.
Bihar and Orissa	Orissa.
	Chota Nagpur.
	Bihar.

In the present review the new division has been adopted throughout.

The system of division is illustrated in Plate I at the end of this Annual Summary, and its relationship to the old system of divisions which was adopted for the tables of the 'Geographical Summary' given in former issues can be obtained by reference to pages 9 to 14 of Volume III of the Indian Meteorological Memoirs.

The data of Table B in the monthly reviews and in the present annual part are obtained, with a few exceptions, from the observations telegraphed daily to Simla for publication in the Daily Weather Report. In the case of thermometric observations, they are telegraphed to the nearest half degree. Hence the maximum and minimum temperature data of the second class observatories derived from these telegraphic

reports and given in table B, occasionally differ to some slight extent from the means of the more exact data (recorded to the tenth of a degree) tabulated in the observation forms sent to the Calcutta Office, and used in the calculation of the mean temperature data in Table A. There is also another reason why the data of mean maxima and minima in Tables A and B differ to a slight extent. In Table B the daily or 24-hour period is assumed to end at 8 hrs. and in Table A at midnight [except for rainfall the period of which ends at 8 hrs.], and hence the maximum temperature in Table B for any month of 31 days at any station gives the mean for 31 periods of 24 hours ending at 8 hrs. of the 31st and in Table A for the same number of 24-hour periods ending at midnight on the 31st, and virtually, therefore, of a monthly period one day in advance of the former. Similarly for months of 28, 29, or 30 days. These remarks will explain some of the slight discrepancies which may be found between the mean data of maximum and minimum temperature in Tables A and B, and in the monthly mean departure data given in these tables in the monthly reviews and annual summary.

SOLAR AND MAGNETIC ACTIVITY.

Report from Kodaikanal Observatory.

The following table gives the number of observations made during each month of the year:—

TABLE 1.

SOLAR OBSERVATIONS IN 1914.

	1914.												
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
A	31	28	31	30	31	29	25	29	30	28	26	25	343
B	...	...	...	9	...	2	...	5	1	...	1	1	19
C	28	28	28	30	25	24	11	22	26	11	24	21	278
D	30	28	31	30	30	29	23	29	30	26	26	24	336
E	31	28	31	30	31	28	20	28	30	23	22	22	329

A=Disc examined. B=Spot spectrum observed. C=Prominences observed. D=Photoheliograms taken. E=Spectroheliograms taken.

A comparison of this table with those in previous reports shows that about the normal number of routine observations were made and photographs taken. The prominence observations were, however, rather below the average owing to the unusually wet and cloudy period from August to the middle of December.

Summary of Sunspot and Prominence Observations.

Sunspots.—The following table shows the monthly numbers of new groups observed, the mean daily numbers of spots visible and the distribution between the northern and southern hemispheres:—

TABLE 2.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
New groups	1	2	6	7	7	4	5	5	4	5	11	14	71
Daily number	0·3	0·2	0·4	1·3	0·6	0·8	0·5	0·6	1·3	0·6	1·7	2·5	0·9
North	...	...	3	3	4	1	...	2	2	3	4	6	28
South	1	2	3	4	3	3	5	3	2	2	7	8	43
Equator	...	...	...	...	...	...	...	...	...	...	...	...	...

The increase of activity compared with the year 1913 is very marked and indicates that the actual minimum of spot activity occurred during 1913.

The steady fall of activity during the years 1910 to 1913 and the sudden rise in 1914 is shown in the table below:—

TABLE 3.

——	1910.	1911.	1912.	1913.	1914.
Number of new groups	152	56	22	16	71
Mean daily numbers	1·8	0·7	0·3	0·2	0·9
Number of days on which no spot was seen.	56	158	240	288	153

Throughout these years there was a marked preponderance of southern over northern spots; and it may be noted that the minimum activity for the northern hemisphere occurred as early as the year 1912 in which year no northern spots were recorded during the period January to November inclusive with only two in December. In the southern hemisphere a similar period of complete quiescence occurred during 1913 in the months May to October inclusive. The first appearance of the new cycle of spots in high latitudes occurred in December 1912 after the close of the northern quiescent period and these spots were in the northern hemisphere. With one insignificant exception the southern high latitude spots first appeared in November 1913 immediately following the southern quiescent period.

Prominences.—The observations indicate a minimum of prominence activity in the year 1913, a notable increase both in numbers and areas having taken place during 1914.

If the two hemispheres of the sun are considered separately the mean areas for the northern hemisphere have their smallest values during the years 1912 and 1913 and remain sensibly constant during those years. In the south there is a steady diminution of prominence area during 1911 and 1912 reaching a minimum value in the second half of 1913.

The mean areas obtained from the photographic and visual records for the years 1913 and 1914 are as follows:—

Mean daily Profile areas of Prominences in square minutes of arc.

TABLE 4.

——	1913.	1914.
North	1·08	1·50
South	1·11	1·60
Total	2·19	3·10

It is of interest to note that the time of minimum prominence area for each hemisphere of the sun coincides approximately with the sunspot minimum for the same hemisphere. The great majority of prominences are however not directly associated with sunspots, the zones of greatest activity being in higher latitudes than the spot zones; and the prominences found in the spot latitudes usually occur in the areas between the spot disturbances.

The class of prominence directly connected with spots is distinct and forms a very small proportion of the whole; these prominences naturally follow the sunspot numbers very closely.

Metallic prominences have been more frequently observed during 1914 than during the previous year, altogether seventeen being recorded as against five only in 1913. The increased activity of the sun during 1914 is also shown by the large number of prominences recorded showing displaced lines due to violent movement, both at the limb and near to spot disturbances on the disc. The greatest displacement observed was 5 A towards red in the hydrogen line *a* corresponding to a velocity of about 230 kilometers per second away from the observer. This was observed on August 26 in a prominence situated at latitude—82° east.

J. EVERSHED,

Director,

Kodaikanal and Madras Observatories.

Report from the Bombay Observatory.

During the year there were 141 calm days, 217 days of small and 7 days of moderate disturbance, showing an increase of 4 calm days, a decrease in small disturbances of 8 days and an increase in moderate disturbances of 4 days as compared with the conditions of last year. On the whole thus the condition of the year shows a definite advance of magnetic activity.

The following table prepared in accordance with the suggestions made by the International Commission, Terrestrial Magnetism, represents the magnetic character of each day during the year:—

Table representing the magnetic character of the day during the year 1914.

TABLE 5.

1914. Date.	Months.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	0	0	1	1	0	2	0	1	1	1	1	0
2	1	1	1	1	0	1	0	1	0	1	1	0
3	1	1	1	0	0	1	0	1	1	1	1	0
4	1	1	1	0	0	0	0	1	1	1	1	1
5	1	1	1	0	1	0	2	0	1	0	1	1
6	1	1	1	2	1	1	1	1	1	1	0	0
7	1	1	1	1	1	1	1	1	0	1	0	1
8	1	0	0	1	0	1	0	1	0	1	0	1
9	0	1	0	1	0	1	1	0	1	1	0	1
10	0	0	1	1	0	0	1	0	1	1	1	1
11	1	0	1	1	1	0	1	1	1	1	2	1
12	1	0	1	0	0	0	0	1	1	0	1	1
13	1	1	0	1	0	0	0	1	1	1	0	0
14	0	0	1	0	0	0	0	0	1	0	1	0
15	1	1	1	0	1	1	0	1	1	0	1	0
16	1	1	1	1	1	0	1	0	1	0	1	1
17	1	1	0	1	1	0	1	0	0	1	1	1
18	1	1	1	1	0	0	1	1	1	1	1	0
19	0	0	1	1	0	1	0	1	1	1	0	1
20	0	0	1	0	0	1	0	1	1	1	0	0
21	1	0	0	0	0	1	1	1	0	1	0	0
22	1	1	0	0	0	0	1	0	0	1	0	1
23	1	1	0	1	0	0	1	1	1	0	0	0
24	0	1	0	1	0	0	1	1	1	0	0	1
25	0	0	1	0	1	1	1	1	1	0	0	1
26	0	0	1	0	1	1	1	1	0	0	1	0
27	0	0	1	1	1	1	1	0	2	1	1	1
28	1	1	1	1	1	1	1	1	1	1	1	1
29	0		0	0	0	1	2	1	1	2	1	1
30	0		0	0	0	1	1	1	1	1	1	1
31	0		0		1		1	1		0		
Sum	18	16	20	18	12	18	22	23	24	22	19	19

In the above table 0 represents calm day.
" 1 " small-disturbance.
" 2 " larger disturbance.

The following is a list of days during the year 1914 selected as "quiet" from the Alibág records, as suitable locally for the determination of the magnetic diurnal inequalities:—

TABLE 6.

MONTHS.	Selected quiet days.				
January 1914	1	10	19	20	27
February „	1	11	12	20	27
March „	8	9	13	22	29
April „	4	12	14	20	26
May „	4	10	14	20	30
June „	5	11	14	18	24
July „	8	12	15	19	20
August „	5	10	14	22	27
September „	2	8	17	22	26
October „	5	13	15	24	25
November „	6	9	13	22	25
December „	3	13	15	21	26

The mean values of the magnetic elements obtained from all days in the year 1914 are as follows:—

Mean Easterly Declination . . . . . 0°44'15"

„ Horizontal Force . . . . . 0·36882 C.G.S.

„ Vertical Force (standardised by the Inductor) . . . . . 0·16583 „

„ Inclination by Inductor { Observed . 24°10'3 / Calculated* . 24°12'6

[* Derived from the corrected mean values of H. and V, for the year.]

The following table gives the corrected monthly mean values of the several magnetic elements as also the summed ranges of the Horizontal Force:—

TABLE 7.

1914. MONTHS.	ABSOLUTE VALUES OF				HORIZONTAL FORCE.	
	Horizontal Force.	Vertical Force.	Inclination.	Easterly Declination.	Summed ranges.	Summed ranges (smoothed).
	C. G. S.	C. G. S.	° ′	° ′ ″	C. G. S.	C. G. S.
January . .	0·36889	0·16531	24 8·3	0 45 47	0·00181	0·00226
February . .	0·36886	0·16537	24 8·9	0 45 24	0·00211	0·00229
March . .	0·36883	0·16554	24 10·3	0 45 16	0·00241	0·00231
April . .	0·36877	0·16559	24 11·0	0 45 1	0·00298	0·00231
May . .	0·36887	0·16578	24 12·0	0 44 59	0·00253	0·00233
June . .	0·36885	0·16581	24 12·3	0 44 23	0·00273	0·00234
July . .	0·36884	0·16585	24 12·6	0 44 10	0·00284	0·00235
August . .	0·36878	0·16588	24 13·1	0 43 51	0·00247	0·00238
September .	0·36872	0·16604	24 14·6	0 43 28	0·00186	0·00242
October . .	0·36875	0·16615	24 15·3	0 43 5	0·00211	0·00246
November . .	0·36881	0·16627	24 16·1	0 42 47	0·00235	0·00251
December . .	0·36884	0·16634	24 16 5	0 42 46	0·00194	0·00257

TABLE 8.—*Smoothed summed range* of Horizontal Force.*

(*Continuation of table 536 in the Colaba Magnetic Data, 1846—1905.*) Unity = 1γ = 0·00001 C.G.S.

MONTHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1905	294	295	297	300	307	311	322	321	320	320	322	321	311
1906	318	316	314	312	304	294	295	299	301	302	301	301	305
1907	300	299	305	310	315	323	326	323	318	314	313	314	313
1908	317	320	314	308	306	301	298	294	293	294	296	295	303
1909	289	284	290	296	297	301	302	301	298	289	280	274	292
1910	272	272	263	254	252	247	244	244	245	244	244	243	252
1911	239	234	230	227	223	217	212	207	203	203	202	202	216
1912	204	205	204	205	208	211	215	219	222	223	223	224	214
1913	223	224	226	225	222	221	221	220	219	220	222	224	222
1914	226	229	231	231	233	234	235	238	242	246	251	257	238

* The summed range figures are the sums without regard to sign of the twenty-four ordinates of the diurnal inequality. Smoothed ranges are derived from running means of twelve consecutive monthly values reduced to the proper epoch so as to eliminate the annual variation.

The smoothed monthly range figures of H. at Alibag as given above also show a corresponding small rise in the secular activity as affected in the main by the 11-year period.

N. A. F. MOOS,

Director, Bombay and Alibag Observatories.

Solar Radiation.

The following table shows, in absolute measure, the value of solar radiation as measured at Simla by means of Angstrom's electric compensation pyrheliometer:—

TABLE 9.

1914.	Intensity in gramme-calories per sq. cm. per min.			Number of days of observation.
	Maximum.	Minimum.	Mean.	
January	1·41	1·32	1·37	10
February	1·48	1·37	1·43	3
March	1·44	1·34	1·40	8
April	1·47	1·37	1·43	9
May	1·46	1·26	1·37	6
June	1·29	1·05	1·15	3
July	No observations.			
August	No observations.			
September	1·43	1·38	1·41	2
October	1·47	1·25	1·38	10
November	1·49	1·43	1·46	8
December	1·50	1·42	1·45	8

Nocturnal Radiation.

Observations of the terrestrial radiation thermometers, which are, as a rule, not very reliable, were recorded during the year 1914, at the following stations—

Srinagar. Jodhpur. Calcutta (Alipore).
Lahore. Allahabad. Bombay. Simla.

The following Table 10 gives the average data of past years for the above stations; and Table 11 the departure from the normal.

TABLE 10.—*Average depression of mean monthly and annual nocturnal radiation temperatures below mean monthly and annual minimum shade temperatures.*

Station.	Number of years observations used.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	
Srinagar	16—21	8·6	8·9	10·0	10·4	11·3	11·3	11·2	10·3	12·3	11·9	11·3	11·2	10·8
Simla	22—23	4·2	3·7	3·8	5·6	4·5	3·9	3·1	2·4	3·9	5·1	5·0	4·8	4·2
Lahore	37—38	9·6	9·3	8·9	9·3	9·1	6·4	4·1	4·2	6·7	9·8	10·7	10·1	8·2
Jodhpur	17—19	8·6	8·6	8·6	8·1	5·6	2·7	2·1	2·3	4·8	9·3	11·0	10·2	8·6
Allahabad	37—38	11·2	11·6	12·6	12·3	9·0	4·9	2·9	2·6	Discontinued.				
Calcutta (Alipore)	37—38	7·3	6·7	5·7	4·3	3·0	2·1	1·6	1·9	2·5	4·3	6·3	7·6	4·5
Bombay	39	9·4	8·8	7·9	6·3	4·5	2·9	2·3	2·5	3·2	6·2	9·2	10·0	6·1

TABLE 11.—*Departures from the averages of Table 10 of mean monthly and annual depression of nocturnal radiation temperatures in 1914.*

Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	
Srinagar	+3·3	+1·2	+2·3	+2·5	+2·3	+2·3	+2·2	+2·5	+1·1	−1·2	+0·1	+1·2	+1·7
Simla	+4·0	+3·3	+3·8	+3·2	+3·6	+5·6	+1·9	+1·9	+3·1	+3·1	+0·1	+0·8	+2·9
Lahore	+0·2	−1·4	+2·0	+1·2	+1·3	+0·2	−0·8	+1·5	−0·2	−0·6	−0·5	+0·5	+0·3
Jodhpur	+1·4	+0·5	+0·8	+4·3	−1·6	−1·1	−0·8	−0·1	−1·4	−3·6	+1·9	+4·4	+0·4
Allahabad	+1·5	+0·2	−0·8	−2·3	−1·9	−1·6	−1·9	−1·2	Discontinued.				
Calcutta (Alipore) . . .	−2·3	−2·6	−1·6	−0·8	+0·1	+0·6	+0·5	+0·8	−0·2	−0·8	−2·1	−3·4	−1·0
Bombay	−0·6	−1·1	+0·9	+1·0	+1·3	+4·2	+4·7	+4·7	+4·9	+3·0	+1·5	+2·0	+2·2

Temperature of the ground.

Observations of the temperature of the surface of the ground were recorded during the year 1914 at five stations, Lahore, Jaipur, Allahabad, Calcutta (Alipore) and Bombay; and of the temperature underground at Bombay only.

The thermometers used for the purpose are verified standard mercurial thermometers with attached scales of porcelain, the scale being engraved also on the tube.

At Lahore the surface thermometer is read four times daily; at Jaipur at 10 and 16 hrs., at Allahabad at 6, 14, and 22 hrs., and at Calcutta at 13 hrs. 45 mins. At Bombay the two nearest to the surface are read five times a day, the deeper instruments being read once only.

The thermometers below the surface have their bulbs protected with pointed copper shoes which rest on ground at the bottom of a wooden tube, inserted to the specified depth and projecting six inches above the surface, the upper ends being closed by a cap of metal or wood. Those at depths of five feet or more are attached to the lower ends of stout wooden bars of about half the diameter of the tube.

Those at one foot have a brass ring attached to the top of the wooden frame by which they are lifted; and in all these the lower part of the frame around the bulb has been cut away, and the lower end fitted with the copper shoe above mentioned.

The average monthly data are here given at length, but a paper published by Mr. R. L. Jones (Meteorological Memoirs, Vol. XV, Pt. III, 1904), makes it clear that the results of the measurement of underground temperatures lead to inconsistent results when analysed on the lines developed by Lord Kelvin. It may be that this is due to irregularities from percolation of rainfall as well as to imperfections in the mode of measurement.

Under these circumstances a table of departures from the average of past years is more likely to give indications of value than a statement of absolute temperatures recorded; such a table is therefore given below. The number of years included in the averages in the different cases lies between 21 and 27.

TABLE 12.—*Departures from normal of the mean monthly and annual temperatures of the air and of the ground in 1914.*

Station.		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
LAHORE	Air	+3·6	0	—1·9	—2·1	+0·8	+0·3	—1·9	+0·1	—0·8	—2·9	+1·8	—1·0	—0·3
	Surface	+2·4	—0·3	+0·3	+0·4	+0·4	+1·9	—6·4	+0·1	—3·5	—2·8	+2·3	—1·0	—0·5
JAIPUR	Air	+4·7	—0·6	—1·6	—0·4	+2·8	0	—0·3	0	+0·3	+0·2	+1·7	—2·4	+0·4
	Surface	+5·6	+0·7	+2·3	—0·3	—1·9	—5·5	—4·1	+3·1	—2·7	—1·7	—0·7	—0·2	—0·5
ALLAHABAD	Air	+3·0	+2·4	—1·3	—1·6	—1·4	+1·8	—1·1	—0·3		Discontinued.			
	Surface	+5·0	+1·4	—2·8	—2·0	—10·5	+3·0	—10·4	—8·2		Ditto			
CALCUTTA (ALIPORE).	Air	+0·7	+3·5	+0·6	—2·5	—0·8	+0·2	+0·4	+1·3	+0·5	+0·3	+1·2	+1·7	+0·6
	Surface	+4·9	+3·9	+1·7	—3·3	—5·2	—1·5	—2·4	0	+1·5	+0·5	+2·9	+3·1	+0·3
BOMBAY	Air	+1·7	+0·5	—1·3	—1·0	+1·3	+1·5	+0·8	+0·6	+1·4	+2·7	+3·0	+0·5	+1·0
	1 inch deep	+0·9	—0·1	—1·7	—1·3	+0·9	+1·3	+0·8	+0·2	+0·9	+2·3	+2·5	+0·3	+0·6
	9 inches deep	...	...	...	—2·2	—0·3	+0·3	40·4	—0·6	+0·2	+1·0	+1·7	+0·3	...
	1 foot 8 inches deep.	+0·2	+0·4	—0·9	—1·0	+0·2	+0·8	+1·0	+0·2	+0·6	+1·0	+1·9	+1·4	+0·5
	5 feet deep	+0·2	+0·1	0	—0·5	—0·4	+0·2	+0·3	+0·3	+0·4	+0·6	+0·9	+1·0	+0·2
	11 feet deep	+0·4	+0·6	+0·5	+0·8	+0·2	—0·3	—0·8	—0·4	—0·1	+0·2	0	+0·2	+0·1

Temperature.

The methods of exposing the thermometers at observatories in India were described in pages 18-19 of the Annual Report for 1890.

The method of deducing the daily and monthly means from the observed reading of the instruments was described in page 7 of the monthly Weather Review for January 1914.

The departures from normal of the mean temperature of each month given in Table A of the Monthly Weather Reviews are deduced by a comparison of the actual monthly means with the normal monthly means given in the "Indian Meteorological Memoirs," Volume XVII, pages 16 to 24.

The departures obtained by a comparison of these normal means with the actual monthly means in Table A of the Monthly Weather Reviews for the year are given in Table 3.

In Table B, published in each Monthly Review, the mean temperature of the day is calculated, as in the Daily Weather Report, by the formula:—daily mean $= \frac{\text{maximum} + \text{minimum}}{2}$. It differs from the true daily mean by amounts varying slightly with the season. In Table B of the Monthly Weather Reviews of the year 1914 are given the departures from normal of the monthly means of daily maximum and minimum temperatures, as well as the departures of the monthly means of daily mean temperature given by the formula ½ (maximum + minimum).

Tables 14 to 19 give summaries of the temperature departure data for each month of the year 1914 and for the whole year. In the first set of tables (Tables 14, 15 and 16) the departure data are given for the 15 chief political divisions, and in the last three tables (Tables 17 to 19) the data are given for the 35 sub-divisions.

TABLE 13.—*Departure from normal of monthly and annual mean air temperatures at first and second class observatories in 1914.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
BENGAL	Calcutta	+0·7	+3·5	+0·6	—2·5	—0·8	+0·2	+0·4	+1·3	+0·5	+0·3	+1·2	+1·7	+0·6
UNITED PROVINCES OF AGRA AND OUDH.	Allahabad	+3·0	+2·4	—1·3	—1·6	—1·4	+1·8	—1·1	—0·3			(Discontinued.)		
PUNJAB	Lahore	+3·6	0	—1·9	—2·1	+0·8	+0·3	—1·9	+0·1	—0·8	—2·9	+1·8	—1·0	—0·3
RAJPUTANA	Jaipur	+4·7	—0·6	—1·6	—0·4	+2·8	0	—0·3	0	+0·3	+0·2	+1·7	—2·4	+0·4
BOMBAY	Bombay	+1·7	+0·5	—1·3	—1·0	+1·3	+1·5	+0·8	+0·6	+1·4	+2·7	+3·0	+0·5	+1·0
MYSORE	Bangalore	+0·3	+2·2	+1·9	+0·3	+1·4	+2·4	+0·2	0	+1·3	+0·4	+1·1	+2·8	+1·2
MADRAS	Madras	—4·0	0	+1·0	—1·3	+1·4	+2·4	+0·9	—0·4	—0·8	—0·8	+0·4	+1·4	+0·3
HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN.	Kathmandu	+1·3	+1·9	+0·1	—1·4	+1·0	+1·5	+1·6	+0·8	+1·1	—2·1	+1·7	—2·3	+0·4
EXTRA INDIA	Seychelles	+1·6	+0·8	+1·7	+1·5	+2·0	+3·5	+2·1	+1·4	+1·3	+2·3	+1·8	+1·6	+1·8
	Mauritius	—0·1	+1·2	+1·1	+0·4	+0·2	+2·5	+0·4	+0·8	+1·0	—1·1	—0·2	—1·2	+0·4

TABLE 14.—*Departure of the mean monthly and annual maximum temperature from the normal in the fifteen chief political divisions of India in 1914, as given by all observatories.*

Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma	—2·2	—0·4	—0·8	—2·3	+0·2	—1·2	—0·3	—1·4	+0·5	—1·1	—0·8	—0·4	—0·9
Assam	—0·4	—0·6	—0·9	—3·7	—0·3	+1·6	+1·3	—1·2	+0·1	—2·1	+0·2	+1·1	—0·4
Bengal	+0·3	+0·4	—0·8	—4·9	—2·4	+0·6	+0·1	+0·3	+0·6	+0·4	+1·7	+1·4	—0·2
Bihar and Orissa	+0·7	+1·0	—1·7	—4·3	—4·3	+0·4	—0·4	—0·7	0	+1·1	+2·1	+1·3	—0·4
United Provinces	+4·4	+1·9	—2·5	—3·1	—2·1	+1·6	—0·5	0	+0·2	—1·2	+0·8	+0·1	0
Punjab	+3·2	—2·5	—3·3	—4·8	—1·1	—1·0	—4·0	—1·1	—2·5	—6·5	—3·4	—2·2	—2·4
North-West Frontier Province	+2·3	—4·1	—3·3	—4·1	+1·8	+0·4	—3·1	—1·3	—1·7	—6·3	—4·7	—4·3	—2·4
Sind	+1·9	—3·9	—2·2	—1·4	+2·3	—0·1	—1·3	+1·6	+1·3	—1·0	+0·3	—1·5	—0·3
Rajputana	+3·8	—0·4	—1·9	—1·1	+2·7	—0·4	—2·5	—0·3	—0·4	—1·6	—0·4	—1·9	—0·4
Bombay	+1·2	—0·6	—2·0	—1·9	+1·2	+0·4	—0·8	—0·2	—0·1	+1·5	+1·0	—0·4	+0·1
Central India	+3·9	+0·8	—2·9	—2·8	+0·5	+0·3	—1·1	+0·8	0	+1·0	+2·1	+0·3	+0·2
Central Provinces	+2·4	+1·3	—2·7	—4·1	—0·5	0	—0·8	+0·1	—0·5	+2·1	+2·3	+1·0	+0·1
Hyderbad	—0·6	+1·6	—0·1	—1·1	+0·9	+0·1	—1·4	—0·6	—0·8	+1·1	+0·9	+0·9	+0·1
Mysore	0	+1·9	—1·1	+1·2	+2·1	+3·6	—1·0	—1·3	+1·8	+1·1	+1·1	+2·6	+1·1
Madras	—0·3	+0·3	—0·3	—0·9	+0·4	+1·5	0	—0·7	+0·1	—0·1	+0·9	+0·5	+0·1

TABLE 15.—*Departure of the mean monthly and annual minimum temperature from the normal in the fifteen chief political divisions of India in 1914.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma	−1·1	−0·6	+0·3	−1·6	+0·2	−0·2	+0·5	0	−0·1	−1·8	+0·4	+1·8	−0·2
Assam	−0·3	+2·0	−0·1	−3·1	+0·7	+0·7	+0·6	+0·1	−0·5	−3·4	−0·8	+1·1	−0·3
Bengal	+0·4	+2·6	−0·4	−3·8	+0·2	−0·3	+0·1	+0·3	−0·5	−2·6	−1·2	+0·4	−0·4
Bihar and Orissa	+0·1	+1·4	−1·2	−2·9	+1·3	−0·4	−0·1	−0·1	−0·6	−3·0	−1·4	+0·6	−0·7
United Provinces	0	+0·7	−0·8	−1·5	−0·7	+0·5	+0·3	0	+0·7	−1·1	+1·8	−1·1	−0·1
Punjab	+2·2	−0·2	−2·2	−1·7	−0·2	+0·7	−0·3	−0·7	+0·8	+0·7	+4·5	−3·1	+0·2
North-West Frontier Province	+2·0	−0·5	−1·4	−1·2	−0·1	+1·3	+0·9	−0·3	+2·6	+1·9	+6·5	−0·6	+0·9
Sind	+2·8	−0·9	−1·7	0	+1·4	+0·8	+1·4	+1·6	+3·7	+4·5	+7·7	−0·9	+1·7
Rajputana	+3·3	+0·1	−1·4	+0·1	+1·9	−0·5	−0·5	−0·8	+0·7	+1·9	+3·9	−2·1	+0·5
Bombay	+0·9	+0·1	−2·5	−1·5	+1·0	0	+0·3	0	+0·7	+0·3	+3·0	−1·0	+0·3
Central India	+1·6	+1·2	−0·3	+0·1	+1·5	−0·5	+0·1	+0·6	+1·1	−0·1	+4·4	−0·5	+0·8
Central Provinces	+0·6	+1·9	−1·1	−1·3	−0·2	−0·8	+0·4	+0·2	+0·4	0	+3·4	+1·7	+0·4
Hyderabad	0	+1·9	+0·2	−0·6	+0·5	+0·5	+0·4	0	+0·7	−0·2	+1·9	+2·5	+0·7
Mysore	−0·1	+1·2	+0·9	−0·2	+1·5	+0·5	+0·6	+0·4	+1·2	+0·2	+0·7	+3·1	+0·8
Madras	−0·1	+0·4	+1·2	+0·1	+0·9	+0·8	+0·7	+0·1	+0·7	0	+0·5	+1·5	+0·6

TABLE 16.—*Departure of the mean monthly and annual temperature from the normal in the fifteen chief political divisions of India in 1914.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma	−1·7	−0·5	−0·2	−0·2	+0·2	−0·7	+0·1	−0·7	+0·2	−1·5	−0·2	+0·7	−0·5
Assam	−0·3	+0·8	−0·5	−3·4	+0·2	+1·1	+1·0	−0·5	−0·2	−2·7	−0·3	+1·1	−0·3
Bengal	+0·3	+1·5	−0·6	−4·3	−1·1	+0·2	+0·1	+0·3	+0·1	−1·0	+0·3	+0·9	−0·3
Bihar and Orissa	+0·4	+1·2	−1·5	−3·9	−2·8	0	−0·3	−0·1	−0·3	−0·9	+0·3	+0·9	−0·6
United Provinces	+2·2	+1·3	−1·6	−2·2	−1·5	+1·1	−0·1	0	+0·5	−1·1	+1·3	−0·5	−0·1
Punjab	+2·7	−1·3	−2·8	−3·3	−0·7	−0·1	−2·1	−0·9	−0·9	−2·9	+0·6	−1·7	−1·1
North-West Frontier Province	+2·2	−2·3	−2·3	−2·7	+0·9	+0·9	−1·1	−0·8	+0·5	−2·2	+0·9	−2·5	−0·7
Sind	+2·3	−2·4	−2·0	−0·7	+1·9	+0·4	+0·1	+1·6	+2·5	+1·8	+4·0	−1·2	+0·7
Rajputana	+3·5	−0·1	−1·7	−0·5	+2·3	−0·5	−1·6	−0·6	+0·1	+0·1	+1·7	−2·0	+0·1
Bombay	+1·1	−0·2	−2·2	−1·7	+1·1	+0·2	−0·3	−0·1	+0·3	+0·9	+2·0	+0·3	+0·1
Central India	+2·8	+1·0	−1·6	−1·4	+1·0	−0·1	−0·5	+0·5	+0·5	+0·4	+3·3	−0·1	+0·5
Central Provinces	+1·5	+1·6	−1·9	−2·7	−0·3	−0·4	−0·2	+0·1	0	+1·0	+2·9	+1·3	+0·2
Hyderabad	−0·3	+1·7	0	−0·9	+0·7	+0·3	−0·5	−0·5	−0·1	+0·5	+1·3	+1·7	+0·3
Mysore	0	+1·5	+1·0	+0·5	+1·3	+2·0	−0·2	−0·5	+1·3	+0·7	+0·9	+2·9	+1·0
Madras	−0·2	+0·3	+0·5	−0·4	+0·7	+1·1	+0·4	−0·3	+0·4	0	+0·7	+1·0	+0·3
Mean of India	+1·0	+0·3	−1·2	−2·0	+0·1	+0·2	−0·4	−0·2	+0·2	−0·4	+1·3	+0·2	−0·1

TABLE 17.—*Departure of the monthly and annual maximum temperature from the normal in 33 sub-divisions of India in 1914.*

Sub-division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
1. Bay Islands	−1·5	−1·7	−1·6	−0·9	−0·7	−0·4	−1·0	−1·2	+1·1	+1·2	+1·7	+0·5	−0·4
2. Lower Burma	−1·9	−0·1	−0·9	−1·6	+0·8	−0·7	−0·4	−0·6	+1·1	+0·2	0	+0·2	−0·3
3. Upper Burma	−2·7	−0·9	−0·6	−3·3	−0·8	−2·1	0	−2·5	−0·3	−2·8	−1·8	−1·4	−1·6
4. Assam	−0·4	−0·6	−0·9	−3·7	−0·3	+1·6	+1·3	−1·2	+0·1	−2·1	+0·2	+1·1	−0·4
5. Bengal	+0·3	+0·4	−0·8	−4·9	−2·4	+0·6	+0·1	+0·3	+0·6	+0·4	+1·7	+1·4	−0·2
6. Orissa	−1·5	+0·1	−1·4	−4·4	−5·7	−0·9	−0·9	−0·3	−1·7	+1·3	+2·1	+0·3	−1·1
7. Chota Nagpur	+0·1	+2·3	−1·1	−3·1	−6·1	−0·9	−1·3	+0·9	−1·3	+1·0	+1·9	+0·3	−0·6
8. Bihar	+1·1	+1·0	−2·2	−5·8	−2·6	+1·5	+0·3	−0·6	+1·5	+1·0	+2·1	+2·3	0
9. United Provinces, East	+4·0	+2·2	−2·7	−3·1	−3·1	+2·3	−0·7	−0·4	+0·2	−0·1	+1·6	+1·1	+0·1
10. Do. do., West	+4·7	+1·5	−2·2	−2·9	−1·0	0	−0·1	+0·5	+0·2	−2·4	+0·1	−1·1	−0·2
11. Punjab, East and North	+3·5	−2·3	−3·6	−4·7	−1·3	−1·0	−3·5	+0·3	−2·2	−6·9	−3·4	−2·4	−2·3
12. Punjab, South-west	+2·5	−3·1	−2·9	−5·0	−0·7	−1·0	−5·0	−2·9	−3·0	−5·9	−3·2	−1·9	−2·7
13. Kashmir	+3·3	+0·2	0	+0·9	+2·2	+4·5	+1·2	−1·3	+2·4	−4·5	−3·4	−5·7	0
14. North-West Frontier Province	+2·3	−4·1	−3·3	−4·1	+1·8	+0·4	−3·1	−1·3	−1·7	−6·3	−4·7	−4·3	−2·4
15. Baluchistan	+6·4	−5·5	−3·9	−2·1	+1·1	+3·0	+1·5	+1·1	+2·7	+1·7	−2·4	−4·3	−0·1
16. Sind	+1·9	−3·9	−2·2	−1·4	+2·3	−0·1	−1·3	+1·6	+1·3	−1·0	+0·3	−1·5	−0·3
17. Rajputana, West	+4·2	−1·2	−2·0	−1·1	+4·0	−1·4	−3·6	+2·2	−0·1	−1·1	−1·3	−2·4	−0·3
18. Do., East	+3·9	+0·1	−1·8	−1·1	+1·9	+0·1	−2·0	−1·1	−0·7	−1·9	0	−1·8	−0·4
19. Gujarat	+2·9	−2·0	−2·9	−2·4	+0·5	−0·5	−1·1	+0·5	−0·6	+0·3	+1·6	−1·2	−0·4
20. Central India, West	+4·3	−0·6	−2·5	−1·6	+2·3	−0·3	−1·3	+0·7	+0·4	+1·3	+1·9	+0·8	+0·4
21. Do. do., East	+3·6	+2·2	−3·4	−3·5	−1·2	+0·9	−0·9	−0·1	−0·3	+0·7	+2·3	+0·2	0
22. Berar	+2·2	+1·1	−1·7	−2·3	+0·5	−0·1	−1·2	−0·3	−0·6	+2·7	+2·6	+1·7	+0·4
23. Central Provinces, West	+3·4	+1·5	−3·2	−3·9	−0·2	0	−0·7	+0·1	−0·3	+2·0	+2·4	+0·7	+0·1
24. Do. do., East	+0·6	+1·2	−2·5	−6·7	−2·3	−0·1	−0·7	+0·1	−0·8	+1·8	+2·0	+1·3	−0·5
25. Konkan	+0·7	−0·5	−1·9	−1·8	+0·8	+0·8	0	−0·9	+0·3	+3·5	+1·3	−0·8	+0·1
26. Bombay Deccan	+0·2	+0·9	−0·8	−1·4	+2·3	+1·5	−1·1	−0·7	+0·1	+1·9	0	+0·6	+0·3
27. Hyderabad, North	+0·1	+2·1	−0·1	−1·3	+1·1	+0·1	−2·3	+0·1	−0·8	+1·1	+0·6	+0·6	+0·1
28. Do., South	−1·0	+1·1	−0·1	−1·1	+0·7	+0·1	−0·9	−1·3	−0·9	+1·1	+1·0	+2·1	0
29. Mysore	0	+1·9	+1·1	+1·2	+2·1	+3·6	−1·0	−1·3	+1·3	+1·1	+1·1	+2·6	+1·1
30. Malabar	+0·8	−0·3	−0·5	−0·2	+0·8	+0·7	−0·3	−0·6	+1·2	+1·4	+0·8	−0·6	+0·3
31. Madras, South-east	−0·5	+0·2	0	−0·8	+1·2	+2·1	0	−0·5	−0·1	−1·7	+0·5	+0·5	+0·1
32. Do. Deccan	−1·5	+1·1	−0·4	−0·9	+0·9	+1·3	+0·6	−1·4	+0·1	+0·9	+1·3	+1·7	+0·3
33. Do. Coast, North	−0·6	+0·5	−0·5	−1·7	−1·7	+1·3	0	−0·7	−0·8	+0·8	+1·3	+0·8	−0·1

TABLE 18.—*Departure of the monthly and annual minimum temperature from the normal in 33 sub-divisions of India in 1914.*

SUB-DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
1. Bay Islands	+0·8	−1·4	−1·1	−1·0	+0·3	+0·2	−0·4	−1·3	−0·1	+0·8	+1·5	+0·7	−0·1
2. Lower Burma	−1·5	−0·6	+0·1	−0·9	+0·3	−0·2	+0·1	0	+0·3	−0·5	+0·8	+2·5	0
3. Upper Burma	−1·3	−0·6	+0·7	−2·5	+0·2	−0·2	+0·9	−0·1	−0·7	−3·7	0	+0·7	−0·5
4. Assam	−0·3	+2·0	−0·1	−3·1	+0·7	+0·7	+0·6	+0·4	−0·5	−3·4	−0·8	+1·1	−0·3
5. Bengal	+0·4	+2·6	−0·4	−3·8	+0·2	−0·3	+0·1	+0·3	−0·5	−2·5	−1·2	+0·4	−0·4
6. Orissa	−0·7	+0·5	−0·6	−2·3	−2·1	−1·1	−0·4	0	−1·2	−2·2	−1·0	+0·5	−0·9
7. Chota Nagpur	+0·1	+2·3	−0·9	−2·5	−3·0	−0·3	+0·1	+0·6	−0·4	−1·9	−0·5	+1·5	−0·5
8. Bihar	0	+1·5	−1·7	−3·4	−0·2	0	−0·1	−0·4	−0·3	−4·1	−2·0	+0·2	−0·9
9. United Provinces, East	−0·1	+0·6	−0·7	−1·7	−1·2	+1·0	+0·1	0	+0·6	−1·5	+0·7	−0·8	−0·3
10. Do. do., West	+0·1	+0·7	−0·9	−1·0	−0·2	−0·3	+0·5	0	+0·9	−0·5	+3·0	−1·6	+0·1
11. Punjab, East and North	+1·7	0	−2·2	−1·8	−0·3	+0·5	−0·1	−0·7	+0·7	0	+4·1	−1·0	+0·1
12. Punjab, Southwest	+3·3	−0·6	−2·2	−1·5	+0·1	+1·1	−0·5	−0·8	+0·3	+1·8	+5·1	−1·3	+0·5
13. Kashmir	+2·1	+1·2	−1·2	−1·1	−0·6	+3·3	+2·3	−2·2	+2·0	+1·5	+1·5	−5·3	0
14. North-West Frontier Province.	+2·0	−0·5	−1·4	−1·2	−0·1	+1·3	+0·9	−0·3	+2·6	+1·9	+6·5	−0·6	+0·9
15. Baluchistan	+2·7	+2·0	−4·5	−2·3	−1·3	+3·9	+0·8	−1·2	+3·9	+3·1	+4·5	−5·1	+0·1
16. Sind	+2·8	−0·9	−1·7	0	+1·4	+0·8	+1·4	+1·6	+3·7	+4·5	+7·7	−0·9	+1·7
17. Rajputana, West	+2·5	−0·3	−1·7	−0·9	+1·3	−0·8	−0·9	−1·2	0	+1·4	+4·5	−2·4	+0·1
18. Do., East	+4·2	+0·3	−1·3	+0·8	+2·4	−0·4	−0·3	−0·7	+1·2	+2·1	+3·5	−2·0	+0·8
19. Gujarat	+0·8	−0·9	−2·8	−0·7	+0·5	−0·3	+0·3	0	+0·7	−0·1	+3·8	−1·9	0
20. Central India, West	+2·1	+0·8	−0·7	+0·7	+2·3	−1·1	+0·5	+0·5	+1·1	−0·1	+5·3	−0·8	+0·9
21. Do. do., East	+1·1	+1·7	+0·1	−0·1	+0·7	+0·2	−0·2	+0·7	+1·1	−0·1	+3·5	−0·1	+0·7
22. Berar	+1·8	+1·5	−0·9	−0·5	+0·1	−1·0	+0·7	+0·4	+0·9	+0·5	+4·1	+2·8	+0·9
23. Central Provinces, West	+1·1	+1·8	−1·4	−1·1	+0·3	−1·1	+0·4	+0·1	+0·4	−0·1	+3·9	+1·3	+0·5
24. Do. do., East	−0·1	+2·7	−0·6	−2·7	−1·9	+0·1	+0·3	+0·2	0	−0·6	+1·1	+1·7	0
25. Konkan	+0·5	+0·4	−2·6	−2·6	+1·2	+0·4	0	−0·3	+0·7	+1·6	+2·3	+2·5	+0·3
26. Bombay Deccan	+1·2	+1·1	−2·2	−1·8	+1·5	+0·3	+0·4	+0·1	+0·6	0	+2·5	+2·9	+0·5
27. Hyderabad, North	0	+3·1	+0·7	−0·2	+1·0	−0·1	+0·3	+0·3	+0·6	−0·7	+2·3	+2·3	+0·7
28. Do, South	0	+1·3	−0·1	−0·5	+0·3	+0·7	+0·5	−0·1	+0·2	0	+1·6	+2·5	+0·6
29. Mysore	−0·1	+1·2	+0·9	−0·2	+1·5	+0·5	+0·6	+0·4	+1·2	+0·2	+0·7	+3·1	+0·8
30. Malabar	+0·3	+0·9	+0·8	+0·9	+1·9	+1·4	+0·8	+0·7	+1·5	+1·5	+1·2	+2·5	+1·2
31. Madras, Southeast	−0·1	+0·3	+2·0	+0·6	+1·3	+1·3	+1·3	+0·5	+1·2	+0·2	+0·4	+0·9	+0·8
32. Do., Deccan	−1·0	+1·6	+0·2	−0·8	+0·9	+0·2	+0·5	−0·3	+0·3	−0·9	+0·8	+2·7	+0·4
33. Do., Coast, North	−0·9	−0·6	+0·8	−1·4	−0·9	−0·1	+0·3	−0·8	−0·7	−0·9	−0·4	+0·8	−0·5

TABLE 19.—*Departure of the mean monthly and annual temperature from the normal in 33 sub-divisions of India in 1914.*

SUB-DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
1. Bay Islands	−0·3	−1·5	−1·3	−0·9	−0·2	−0·1	−0·7	−1·3	+0·5	+1·0	+1·6	+0·6	−0·2
2. Lower Burma	−1·7	−0·3	−0·4	−1·3	+0·5	−0·5	−0·1	−0·3	+0·7	−0·1	+0·4	+1·3	−0·1
3. Upper Burma	−2·0	−0·7	+0·1	−2·9	−0·3	−1·1	+0·5	−1·3	−0·5	−3·3	−0·9	−0·3	−1·1
4. Assam	−0·3	+0·7	−0·5	−3·4	+0·2	+1·1	+0·9	−0·5	−0·2	−2·7	−0·3	+1·1	−0·3
5. Bengal	+0·3	+1·5	−0·6	−4·3	−1·1	+0·1	+0·1	+0·3	+0·1	−1·1	+0·3	+0·9	−0·3
6. Orissa	−1·1	+0·3	−1·0	−3·3	−3·9	−1·0	−0·7	−0·1	−1·5	−0·5	+0·5	+0·4	−1·0
7. Chota Nagpur	+0·1	+2·3	−1·0	−2·8	−4·5	−0·9	−0·6	+0·7	−0·9	−0·5	+0·7	+0·9	−0·5
8. Bihar	+0·5	+1·3	−1·9	−4·6	−1·4	+0·7	+0·1	−0·5	+0·6	−1·5	+0·1	+1·3	−0·4
9. United Provinces, East	+1·9	+1·4	−1·7	−2·4	−2·1	+1·7	−0·3	−0·2	+0·4	−0·8	+1·1	+0·1	−0·1
10. Do, do., West	+2·4	+1·1	−1·5	−1·9	−0·6	−0·1	+0·2	+0·3	+0·5	−1·5	+1·5	−1·3	−0·1
11. Punjab, East and North	+2·6	−1·1	−2·9	−3·3	−0·8	−0·3	−1·8	−0·2	−0·7	−3·5	+0·3	−1·7	−1·1
12. Punjab, Southwest	+2·9	−1·9	−2·5	−3·3	−0·3	+0·1	−2·7	−1·9	−1·1	−2·1	+0·9	−1·6	−1·1
13. Kashmir	+2·7	+0·7	−0·6	−0·1	+0·8	+3·9	+1·7	−1·7	+2·2	−3·0	−0·9	−5·5	0
14. North-West Frontier Province	+2·1	−2·3	−2·3	−2·7	+0·9	+0·9	−1·1	−0·8	+0·5	−2·2	+0·9	−2·5	−0·7
15. Baluchistan	+4·5	−4·3	−4·2	−2·2	−0·1	+3·5	+1·1	−0·1	+3·2	+2·4	+1·1	−4·7	0
16. Sind	+2·3	−2·4	−1·9	−0·7	+1·9	+0·3	+0·1	+1·6	+2·5	+1·7	+4·0	−1·2	+0·7
17. Rajputana, West	+3·3	−0·7	−1·9	−1·0	+2·7	−1·1	−2·3	+0·5	−0·1	+0·1	+1·6	−2·4	−0·1
18. Do., East	+4·1	+0·2	−1·5	−0·1	+2·1	−0·1	−1·1	−0·9	+0·3	+0·1	+1·7	−1·9	+0·2
19. Gujarat	+1·9	−1·5	−2·7	−1·5	+0·5	−0·4	−0·4	+0·3	+0·1	+0·1	+2·7	−1·5	−0·2
20. Central India, West	+3·2	+0·1	−1·6	−0·5	+2·3	−0·7	−0·4	+0·6	+0·7	+0·6	+3·6	−0·3	+0·6
21. Do, do., East	+2·3	+1·9	−1·7	−1·8	−0·3	+0·5	−0·5	+0·3	+0·4	+0·3	+2·9	+0·1	+0·4
22. Berar	+2·0	+1·3	−1·3	−1·4	+0·3	−0·5	−0·3	+0·1	+0·1	+1·6	+3·3	+2·3	+0·6
23. Central Provinces, West	+2·3	+1·7	−2·3	−2·5	+0·1	−0·5	−0·1	+0·1	+0·1	+0·9	+3·1	+1·0	+0·3
24. Do. do., East	+0·3	+1·9	−1·5	−4·7	−2·1	0	−0·2	+0·1	−0·4	+0·6	+1·5	+1·5	−0·3
25. Konkan	+0·6	−0·1	−2·3	−2·2	+1·0	+0·6	0	−0·6	+0·5	+2·5	+1·8	+0·9	+0·2
26. Bombay Deccan	+0·7	+1·0	−1·5	−1·6	+1·9	+0·9	−0·3	−0·3	+0·3	+0·9	+1·3	+1·7	+0·4
27. Hyderabad, North	+0·1	+2·6	+0·3	−1·1	+1·1	0	−1·0	+0·2	−0·1	+0·2	+1·5	+1·5	+0·4
28. Do., South	−0·5	+1·2	−0·1	−0·8	+0·5	+0·4	−0·2	−0·7	−0·1	+0·5	+1·3	+1·8	+0·3
29. Mysore	−0·1	+1·5	+1·0	+0·5	+1·8	+2·1	−0·2	−0·5	+1·3	+0·7	+0·9	+2·9	+1·0
30. Malabar	+0·5	+0·3	+0·1	+0·3	+1·3	+1·1	+0·3	−0·1	+1·3	+1·5	+1·0	+0·9	+0·7
31. Madras, South-east	−0·3	+0·3	+1·0	−0·1	+1·3	+1·7	+0·7	0	+0·5	−0·7	+0·5	+0·7	+0·5
32. Do, Deccan	−1·3	+1·3	−0·1	−0·7	+0·9	+0·7	+0·5	−0·9	+0·2	0	+1·1	+2·2	+0·3
33. Do. Coast, North	−0·7	−0·1	+0·1	−1·5	−1·3	+0·6	−0·1	−0·7	−0·7	−0·1	+0·5	+0·8	−0·3

In the following discussion the year is divided into four seasons according to the following arrangement:—

1st.—The cold weather period, including the months of January and February.

2nd.—The hot weather period, including the months of March, April and May.

3rd.—The period of the south-west monsoon rains proper, including the months of June, July, August and September.

4th.—The period of the retreating south-west monsoon, including the months of October, November and December.

I.—The cold weather period.—A large number of disturbances were transmitted eastwards from Persia, but only two of them gave rise to widespread rainfall in northern India, the influence of the rest being exerted chiefly in the extreme north.

The seasonal precipitation was above the normal in Assam, Bengal, the Punjab South-west, Kashmir, the North-West Frontier Province, Baluchistan and Sind, and was more or less in defect in all other parts of the country. The month was rainless over the greater part of the Peninsula.

Temperature conditions of the period departed but little from the normal, the departures of mean temperature nowhere in the plains exceeding 2° in amount.

TABLE 20.

Division.	Departure from normal of period, January and February.		
	Maximum temperature.	Minimum temperature	Mean temperature.
	°	°	°
Burma	−1·3	−0·9	−1·1
Assam	−0·5	+0·9	+0·2
Bengal	+0·3	+1·5	+0·9
Bihar and Orissa	+0·9	+0·7	+0·8
United Provinces	+3·1	+0·3	+1·7
Punjab	+0·3	+1·0	+0·7
North-West Frontier Province	−0·9	+0·7	−0·1
Sind	−1·0	+0·9	−0·1
Rajputana	+1·7	+1·7	+1·7
Bombay	+0·3	+0·5	+0·4
Central India	+2·3	+1·4	+1·9
Central Provinces	+1·9	+1·3	+1·6
Hyderabad	+0·5	+0·9	+0·7
Mysore	+0·9	+0·5	+0·7
Madras	0	+0·1	+0·1

In the hills surrounding upper India, the departures of temperature were as a rule as small as in the neighbouring plains, but further north in Kashgaria temperature was appreciably above the average. In Persia where the sky was unusually cloudy maximum temperature was nearly normal and minimum in slight excess.

TABLE 21.

Station.	Departure from normal of period, January and February.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Aden	+0·6	+1·1	+0·8
Baghdad	+0·8	+4·3	+2·5
Bushire	+1·3	+2·1	+1·7
Tehran	+2·9	+3·3	+3·1
Ispahan	+0·1	+3·6	+1·9
Jask	+1·0	+0·5	+0·7
Muscat	+5·1	−1·1	+2·0
Chaman	+1·4	+0·8	+1·1
Quetta	−0·5	−1·1	−0·8
Cherat	+0·1	+0·9	+0·5
Murree	−1·1	+1·8	+0·3
Gilgit	+2·1	+1·3	+1·7
Kashgar	+7·2	+1·9	+4·5
Srinagar	+5·2	+4·5	+4·9
Skardu	−0·9	+1·2	+0·1
Simla	+3·1	+2·8	+2·9
Leh	+0·6	−0·3	+0·1
Chakrata	+2·7	−1·1	+0·8
Mukteswar	+2·0	+1·8	+1·9
Darjiling	+2·7	+1·9	+2·3

No marked warm and cool waves were felt during the period, and the greatest cold of the year in northern India generally occurred in the last three weeks of December instead of in the earlier part of the year as is normally the case.

II.—The hot weather period.—During March only two well-formed depressions entered India from the Persian region and the total precipitation of the month was everywhere below the normal except in Chota Nagpur, the United Provinces, the Punjab South-west, Kashmir, central India and the whole of the Central Provinces. Temperature on the whole inclined to be low in northern and central India due in large measure to the influence of two well marked cold waves. The first of these appeared in Baluchistan on the 10th and advanced slowly eastwards to Upper Burma during

the next seven days causing a moderate reduction of temperature. Its effect had passed away almost completely by the 17th, but on the following day another fall of temperature occurred in Baluchistan and extending eastwards across northern India had reached the confines of Bengal by the 22nd. The greatest defect caused by this wave averaged 23° in Baluchistan, 16° in the North-West Frontier Province, 11° in Rajputana, and 10½° in the Punjab.

In April the weather was on the whole more disturbed than usual in northern and central India and a spell of abnormally cool weather occurred there from the 7th to the 19th. The lowness of temperature was, as is usually the case during periods of precipitation, more marked in the day than in the night temperature, the maximum at times being upwards of 20° below the normal in several places. In recent years similar temperature conditions were recorded in April in 1905, 1907, 1909, and 1912.

In May notwithstanding that weather was unsettled in northern India on most days temperature conditions were on the whole approximately normal, and at Jacobabad, usually the hottest station in India, a temperature of 126° was observed which is as high as any previously on record.

On the average of the whole period March to May temperature was nearly normal in all the provinces with the exception of Bengal, Bihar and Orissa, the United Provinces and the Punjab where it was slightly below the normal. The defect accompanied more cloud and rainfall than the normal, and, as usual under these conditions, was shown chiefly in the day temperature.

TABLE 22.

Division.	Departure from normal of period, March to May.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Burma	—1·0	—0·4	—0·7
Assam	—1·6	—0·8	—1·2
Bengal	—2·7	—1·3	—2·0
Bihar and Orissa	—3·6	—1·8	—2·7
United Provinces	—2·6	—1·0	—1·8
Punjab	—3·1	—1·4	—2·3
North-West Frontier Province	—1·9	—0·9	—1·4
Sind	—0·4	—0·1	—0·3
Rajputana	—0·1	+0·2	+0·1
Bombay	—0·9	—1·0	—0·9
Central India	—1·7	+0·4	—0·7
Central Provinces	—2·4	—0·9	—1·7
Hyderabad	—0·1	0	—0·1
Mysore	+1·5	+0·7	+1·1
Madras	—0·3	+0·7	+0·2

In the hill districts bordering the Punjab on the north temperature varied rather irregularly from the normal, being low on the outer ranges, and about normal in the interior. In Baluchistan weather was on the whole somewhat colder than usual, while in Persia the departures from the normal were not marked.

TABLE 23.

Station.	Departure from normal of period, March to May.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Aden	?	+1·2	...
Baghdad	+1·7	+0·7	+1·2
Bushire	+0·4	+0·4	+0·4
Ispahan	—1·5	+1·0	—0·3
Jask	+1·9	+0·8	+1·3
Muscat	+6·7	—0·1	+3·3
Meshed	...	—3·0	...
Chaman	—2·8	—3·5	—3·1
Quetta	—0·5	—2·0	—1·3
Cherat	—3·8	—2·5	—3·1
Murree	—4·9	—0·6	—2·7
Gilgit	+1·3	—1·2	+0·1
Kashgar	+3·4	—0·3	+1·5
Srinagar	—1·7	—0·5	—1·1
Skardu	+3·7	—1·2	+1·3
Simla	—2·6	—2·3	—2·5
Leh	+0·8	—0·9	—0·1
Chakrata	—4·2	—2·9	—3·5
Mukteswar	—3·9	—1·8	—2·9
Darjiling	—1·2	—1·6	—1·4

III.—The south-west monsoon period.—The monsoon arrived on the west coast of the Peninsula on June 4th and on the Bengal coast on the 16th, but its extension inland was very slow so that the establishment of the rains in the interior did not occur until nearly the end of the month. The currents were unusually active during July and of about normal intensity in August and September, and the final cessation of the rains in upper India occurred on the 19th, a few days after the normal date. The total rainfall of the period in the plains of India was 10 per cent in excess of the normal and its distribution was also very satisfactory.

The departures from normal of temperature in the plains were determined mainly by the rainfall and were in almost all cases of small magnitude.

TABLE 24.

Division.	Departure from normal of period, June to September.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Burma	—0·6	0	—0·3
Assam	+0·5	+0·2	+0·3
Bengal	+0·4	—0·1	+0·1
Bihar and Orissa	—0·1	—0·3	—0·2
United Provinces	+0·3	+0·4	+0·3
Punjab	—2·1	+0·1	—1·0
North-West Frontier Province	—1·4	+1·1	—0·1
Sind	+0·4	+1·9	+1·1
Rajputana	—0·9	—0·3	—0·6
Bombay	—0·2	+0·3	+0·1
Central India	—0·1	+0·3	+0·1
Central Provinces	—0·3	+0·1	—0·1
Hyderabad	—0·7	+0·4	—0·1
Mysore	+0·7	+0·7	+0·7
Madras	+0·2	+0·6	+0·4

In Kashgar, Kashmir and Baluchistan temperature was somewhat higher than usual, but further west in Persia the deviations from normal of temperature were slight and irregular.

TABLE 25.

Station.	Departure from normal of period, June to September.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Aden	+0·9	+0·7	+0·8
Baghdad	—0·1	—1·8	—0·9
Bushire	—2·7	—0·4	—1·5
Tehran	—0·3	0	—0·1
Ispahan	+0·1	+3·2	+1·7
Jask	+0·3	+1·5	+0·9
Muscat	+2·9	—1·3	+0·8
Meshed	...	—7·1	...
Chaman	+1·3	+0·8	+1·1
Quetta	+2·8	+2·9	+2·9

TABLE 25—*concld.*

Station.	Departure from normal of period, June to September.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Cherat	—3·7	—1·3	—2·5
Murree	—3·2	+0·3	—1·5
Gilgit	+1·8	—0·6	+0·6
Kashgar	+4·3	+1·1	+2·7
Gulmarg	+2·0	+2·3	+2·1
Srinagar	+1·6	+3·3	+2·5
Skardu	+4·2	+0·1	+2·1
Simla	—1·9	+0·3	—0·8
Leh	—1·2	+1·7	+0·3
Chakrata	—1·1	—1·0	—1·1
Mukteswar	—3·1	—0·3	—1·7
Darjiling	+2·0	+0·3	+1·1

The greatest heat of the year occurred generally between the 13th and 16th June in the United Provinces, between the 16th and 18th June in the east and north Punjab, between the 17th and 19th June in the North-West Frontier Province and at the end of the third week in July in Baluchistan. In the south-west Punjab, upper Sind, Rajputana, Central India and the Central Provinces on the other hand this event occurred near the end of May.

IV.—The retreating south-west monsoon period.—The chief characteristics of the weather during this period were :—

(*a*) the extreme weakness of the retreating monsoon and its abnormally early withdrawal from the United Provinces, north-east India, the Central Provinces and the north of the Peninsula;

(*b*) the occurrence in north-west India during October and November of very heavy rain for the time of year owing to an early commencement of winter actions;

(*c*) the prevaleuce of unusually fine weather in the last three weeks of December in the usual region of winter rains;

(*d*) the occurrence of an unseasonable burst of rain in Burma at the end of the third week in December in connection with a cyclonic storm from the Bay.

The seasonal rainfall was markedly in excess in Baluchistan, the North-West Frontier Province, the Punjab, Kashmir, Malabar, Madras South-east and Burma and normal or in defect elsewhere.

(*a*) Except in the Punjab and the North-West Frontier Province where the maximum temperature was considerably below the normal and in Sind where nights were warmer than usual the temperature conditions of the period were very nearly normal over the whole of the plains of India.

TABLE 26.

Division.	Departure from normal of period, October to December.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Burma	—0·8	+0·1	—0·3
Assam	—0·3	—1·0	—0·7
Bengal	+1·2	—1·1	+0·1
Bihar and Orissa	+1·5	—1·3	+0·1
United Provinces	—0·1	—0·1	—0·1
Punjab	—4·0	+1·4	—1·3
North-West Frontier Province	—5·1	+2·6	—1·3
Sind	—0·7	+3·8	+1·5
Rajputana	—1·3	+1·2	—0·1
Bombay	+0·7	+1·4	+1·1
Central India	+1·1	+1·3	+1·2
Central Provinces	+1·8	+1·7	+1·7
Hyderabad	+1·0	+1·4	+1·2
Mysore	+1·6	+1·3	+1·5
Madras	+0·4	+0·7	+0·5

(b) In Kashmir and the hill districts of the North-West Frontier Province temperature was appreciably low, but in the regions further north and west the departures of temperature were as a rule small.

TABLE 27.

Station.	Departure from normal of period, October to December.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Aden	—1·3	+1·1	—0·1
Bushire	+0·3	+1·3	+0·8
Ispahan	—0·7	+3·3	+1·3
Jask	+1·1	+1·5	+1·3
Muscat	+3·7	—0·5	+1·6
Meshed	...	—4·0	...
Chaman	—1·9	—0·6	—1·3
Quetta	—1·5	+2·3	+0·4
Kabul	—0·5	—1·9	—1·2
Cherat	—7·2	—2·8	—5·0
Murree	...	—2·5	...

TABLE 27—*concld.*

Station.	Departure from normal of period, October to December.		
	Maximum temperature.	Minimum temperature.	Mean temperature.
	°	°	°
Gilgit	—3·3	—2·4	—2·9
Kashgar	+0·9	+0·6	+0·7
Srinagar	—4·9	+3·2	—0·9
Skardu	—6·8	—6·8	—6·8
Simla	—1·4	—1·6	—1·5
Leh	—3·2	—1·1	—2·1
Mukteswar	—2·7	—1·2	—1·9
Darjiling	+1·5	—0·5	+0·5

The year.—On the whole temperature was appreciably below the normal in March and April, and was higher than usual in January and November.

The lowness in April accompanied heavier precipitation than usual, while that in March in which month the rainfall was deficient in most places was chiefly the result of two cold waves which were transmitted across northern India from the highlands to the west of the Indus between the 10th and the 22nd. The excess of temperature in January and November was related directly to the scantiness of rainfall.

The opposite departures recorded in the course of the year almost compensated each other with the result that the mean temperature of the twelve months differed from the normal by only —0·1°.

TABLE 28.

Month.	Departure from normal of mean temperature.
	°
January	+1·0
February	+0·3
March	—1·2
April	—2·0
May	+0·1
June	+0·2
July	—0·4
August	—0·2
September	+0·2
October	—0·4
November	+1·3
December	+0·2
Year	—0·1

Atmospheric pressure.

Full information regarding the types of barometers in use at Indian observatories and of the methods of reducing the observations and obtaining the mean daily and monthly pressures will be found in pages 5 and 6 of the Monthly Review for January 1914.

In Table A, called Table II prior to 1907, of each Monthly Review the monthly mean daily pressure (corrected for temperature) is given in the seventh column, and the departure from the normal in the eighth column. The normal monthly mean pressure values were recalculated in 1904 for all first and second class stations, and will be found in pages 66-69 of the "Indian Meteorological Memoirs," Volume XVII. The departure data in the Monthly Reviews for the year 1914, were obtained by a comparison of the actual monthly means with these normals; the departures of the monthly pressure of all first and second class stations in 1914 are given in Table 29. The figures in the seventh and eight columns of Table A, appended to the present Annual Summary, giving data of the mean pressure of the air and its departure from the normal for all first and second class stations are comparable with the corresponding data of previous years published in the Annual Reports and Annual Summaries.

In the ninth column of Table A in each Monthly Review are given the mean pressures reduced to sea-level and corrected to constant gravity (Lat. 45°). These are not directly comparable with the sea-level pressure values of the years 1875-90 as given in the Annual Reports for those years, for previous to 1891 no correction was made to reduce the monthly pressure means to standard gravity.

In Table B of each Monthly Review, and also in that appended to the Annual Summary, are given the pressure data for 8 hours local time. The fourth column in that table gives the mean 8 hours pressures for the month corrected for temperature. In the fifth column are given the departures of these mean 8 hours pressures from the normal pressures.

TABLE 29—*Departure from normal of monthly and annual mean pressure of first and second class stations in 1914.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		"	"	"	"	"	"	"	"	"	"	"	"	"
Bengal	Calcutta	+·072	+·008	+·024	+·054	+·050	+·034	+·073	−·022	+·052	+·077	−·028	−·022	+·019
United Provinces of Agra and Oudh.	Allahabad	+·078	+·007	+·038	+·051	+·045	+·084	−·070	−·017	(Discontinued.)				
Punjab	Lahore	+·090	+·010	+·027	+·049	+·042	+·039	−·041	−·018	+·040	+·075	−·012	−·004	+·025
Rajputana	Jaipur	+·078	+·001	+·007	+·016	−·008	+·001	−·071	−·010	−·002	+·044	−·026	−·010	+·002
Bombay	Bombay	+·057	+·020	+·028	+·052	+·017	−·004	−·048	+·002	−·015	+·049	−·028	−·017	+·009
Mysore	Bangalore	+·071	+·026	+·024	+·055	+·031	+·003	−·014	+·020	+·015	+·058	−·007	−·004	+·023
Madras	Madras	+·071	+·024	+·010	+·051	+·010	−·009	−·038	−·001	+·019	+·081	−·011	−·018	+·016
Hill stations excluding Kashmir and Baluchistan.	Katmandu	+·112	+·074	+·068	+·102	+·114	+·104	+·035	+·044	+·075	+·049	−·003	+·052	+·069
Extra India	Seychelles	+·057	+·036	+·034	+·023	−·005	−·010	−·036	+·007	−·016	+·005	−·022	+·023	+·008
	Mauritius	+·055	+·013	−·042	+·006	−·007	−·003	−·023	+·041	+·008	+·011	0	+·054	+·009

TABLE 30.—*Departure of the mean monthly and annual pressure from the normal in the fifteen chief political divisions of India in 1914.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	"	"	"	"	"	"	"	"	"	"	"	"	"
Burma	+·094	+·041	+·018	+·050	+·041	−·006	−·049	−·005	+·032	+·065	−·012	−·016	+·021
Assam	+·079	+·029	+·025	+·081	+·042	+·015	−·017	−·027	+·050	+·086	−·007	−·008	+·027
Bengal	+·081	+·018	+·029	+·069	+·049	+·029	−·063	−·023	+·049	+·077	−·008	−·015	+·024
Bihar and Orissa	+·082	+·015	+·032	+·063	+·051	+·033	−·067	−·021	+·052	+·086	−·006	−·013	+·026
United Provinces	+·080	+·016	+·031	+·053	+·054	+·032	−·060	−·020	+·043	+·084	−·009	−·002	+·025
Punjab	+·091	+·025	+·026	+·046	+·050	+·035	−·048	−·022	+·043	+·079	−·010	0	+·026
North-West Frontier Province	+·069	+·002	−·002	+·020	+·017	+·007	−·067	−·039	+·021	+·057	−·026	−·011	+·004
Sind	+·079	+·031	+·034	+·035	+·029	+·021	−·061	−·011	+·013	+·046	−·015	+·006	+·017
Rajputana	+·074	+·013	+·014	+·033	+·006	+·015	−·057	−·001	+·008	+·059	−·013	−·004	+·012
Bombay	+·062	+·023	+·029	+·039	+·015	−·002	−·017	0	−·007	+·062	−·015	−·016	+·012
Central India	+·071	+·013	+·022	+·037	+·025	+·028	−·064	−·007	+·021	+·071	−·007	−·013	+·016
Central Provinces	+·074	+·015	+·025	+·039	+·017	+·016	−·062	+·001	+·025	+·084	−·004	−·018	+·018
Hyderabad	+·082	+·033	+·025	+·036	+·003	+·001	−·044	+·003	+·011	+·075	−·007	−·027	+·016
Mysore	+·073	+·035	+·029	+·046	+·029	+·014	−·027	+·009	+·013	+·052	−·011	−·007	+·021
Madras	+·075	+·033	+·024	+·053	+·023	+·005	−·034	+·006	+·019	+·063	−·006	−·012	+·021
Mean of India	+·079	+·024	+·025	+·047	+·030	+·015	−·053	−·008	+·026	+·071	−·010	−·011	+·020

I.—The cold weather period.—Atmospheric pressure was remarkably high, the excess amounting to ·079″ in January and ·024″ in February on the mean of all the recording stations in the plains.

TABLE 31.

MONTH.	Departure from normal of mean 8 hrs. pressure.
	"
January	+·079
February	+·024

The high pressure conditions were not restricted to India, but embraced practically the whole monsoon area.

TABLE 32.

STATION.	DEPARTURE OF PRESSURE FROM NORMAL.		
	January.	February.	Period, January and February.
	"	"	"
Mauritius	+·055	+·013	+·034
Seychelles	+·057	+·036	+·047
Zanzibar	+·041	+·034	+·037
Aden	+·056	+·004	+·030
Baghdad	−·005	+·023	+·009
Bushire	+·041	+·024	+·033
Jask	+·022	+·004	+·014
Muscat	+·080	+·067	+·073

The excess of pressure in northern and central India in January was a result mainly of the high density of the middle or upper atmospheric strata, while that of February was almost uniformly distributed through the whole depth of the atmosphere between the plains and the most elevated observing station, *viz.*, Leh; in southern India on the other hand it occurred largely in the stratum below the level of Kodaikanal.

TABLE 33.

Pair of stations.	Departure from normal of vertical pressure differences.		
	January.	February.	Period, January and February.
	"	"	"
Jacobabad and Quetta	—·009	+·021	+·006
Lahore and Leh	—·038	—·009	—·023
Peshawar and Murree	—·036	—·002	—·019
Ludhiana and Simla	—·020	—·001	—·011
Roorkee and Chakrata	—·020	+·009	—·005
Dhubri and Darjiling	+·009	+·017	+·013
Deesa and Mount Abu	—·018	+·011	—·003
Khandwa and Pachmarhi	—·012	0	—·006
Madura and Kodaikanal	+·044	+·027	+·035

The local features of the pressure distribution in the plains were not strongly marked.

TABLE 34.

Division.	Excess of pressure departure over geographical mean for India.		
	January.	February.	Period, January and February.
	"	"	"
Burma	+·015	+·017	+·016
Assam	0	+·005	+·003
Bengal	+·002	—·006	—·002
Bihar and Orissa	+·003	—·009	—·003
United Provinces	+·001	—·008	—·003
Punjab	+·012	+·001	+·007
North-West Frontier Province	—·010	—·022	—·016
Sind	0	+·007	+·003
Rajputana	—·005	—·011	—·008
Bombay	—·017	—·001	—·009

TABLE 34—*contd.*

Division.	Excess of pressure departure over geographical mean for India.		
	January.	February.	Period, January and February.
	"	"	"
Central India	—·008	—·011	—·009
Central Provinces	—·005	—·009	—·007
Hyderabad	+·003	+·009	+·006
Mysore	—·006	+·011	+·003
Madras	—·004	+·009	+·003

II.—The hot weather period.—The high pressure conditions which had characterised January and February persisted through the next three months.

TABLE 35.

Month.	Departure from normal of mean 8 hrs. pressure.
	"
March	+·025
April	+·047
May	+·030

As in the cold weather period the excess of pressure extended considerably beyond the borders of India. Its southern limits did not however reach further than the equatorial belt, for at Mauritius the pressure was in marked defect in March and very nearly normal in the succeeding two months.

TABLE 36.

Station.	Departure of pressure from normal.			
	March.	April.	May.	Period, March to May.
	"	"	"	"
Mauritius	—·042	+·006	—·007	—·014
Seychelles	+·034	+·023	—·005	+·017
Zanzibar	+·032	+·007	+·020	+·020
Aden	+·044	+·028	+·032	+·035
Baghdad	+·001	—·050	+·062	+·004
Bushire	+·068	+·019	+·067	+·051
Jask	+·018	—·014	—·004	0
Muscat	+·111	+·031	+·051	+·064

In the local distribution the only important feature was a moderate excess of pressure in north-east India relatively to north-west India.

TABLE 37.

Division.	Excess of pressure departure over geographical mean for India.			
	March.	April.	May.	Period March to May.
	"	"	"	"
Burma	—·007	+·003	+·011	+·002
Assam	0	+·034	+·012	+·015
Bengal	+·004	+·022	+·019	+·015
Bihar and Orissa	+·007	+·016	+·021	+·015
United Provinces	+·006	+·006	+·024	+·012
Punjab	+·001	—·001	+·020	+·007
North-West Frontier Province.	—·027	—·027	—·013	—·022
Sind	+·009	—·012	—·001	—·001
Rajputana	—·011	—·014	—·024	—·016
Bombay	+·004	—·008	—·015	—·006
Central India	—·003	—·010	—·005	—·006
Central Provinces	0	—·008	—·013	—·007
Hyderabad	0	—·011	—·027	—·013
Mysore	+·004	—·001	—·001	+·001
Madras	—·001	+·006	—·007	—·001

The vertical pressure gradient was unusually steep in March and April and about normal in May.

TABLE 38.

Pair of stations.	Departure from normal of vertical pressure differences.			
	March.	April.	May.	Period March to May.
	"	"	"	"
Jacobabad and Quetta	+·011	+·014	—·030	—·002
Lahore and Leh	+·033	+·049	—·004	+·026
Peshawar and Murree	+·007	+·004	—·020	—·003
Ludhiana and Simla	+·036	+·033	+·004	+·024
Roorkee and Chakrata	+·032	+·039	+·005	+·025
Dhubri and Darjiling	+·034	+·018	—·039	+·004
Deesa and Mount Abu	+·021	+·006	—·026	+·001
Khandwa and Pachmarhi	+·002	+·001	—·018	—·005
Madura and Kodaikanal	+·016	+·044	+·017	+·026

III.—The south-west monsoon period.—Pressure varied irregularly from the normal during this period: thus it was above normal in June and September, and in defect in the intervening months:—

TABLE 39.

Month.	Departure from normal of mean S.L.O. pressure.
	"
June	+·015
July	—·053
August	—·008
September	+·026

There were no persistent marked abnormal features in the local distribution:—

TABLE 40.

Division.	Excess of pressure departure over geographical mean for India.				
	June.	July.	August.	September.	Period June to September.
	"	"	"	"	"
Burma	—·021	+·004	+·006	+·006	—·001
Assam	0	+·006	—·016	+·024	+·003
Bengal	+·014	—·010	—·012	+·023	+·004
Bihar and Orissa	+·018	—·014	—·010	+·026	+·005
United Provinces	+·017	—·007	—·009	+·017	+·005
Punjab	+·020	+·005	—·011	+·017	+·008
North-West Frontier Province.	—·008	—·014	—·028	—·005	—·014
Sind	+·006	—·008	0	—·013	—·004
Rajputana	0	—·004	+·010	—·018	—·003
Bombay	—·017	+·008	+·011	—·033	—·008
Central India	+·008	—·011	+·004	—·005	—·001
Central Provinces	+·001	—·009	+·012	—·001	+·001
Hyderabad	—·014	+·009	+·014	—·015	—·001
Mysore	—·001	+·02	+·020	—·013	+·008
Madras	—·010	+·019	+·017	—·007	+·005

The vertical gradient was on the mean of the period very nearly normal.

TABLE 41.

Pair of Stations.	Departure from normal of vertical pressure differences.				
	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"
Jacobabad and Quetta	+ ·005	— ·017	— ·028	+ ·020	— ·005
Lahore and Leh	+ ·006	— ·029	— ·024	+ ·011	— ·009
Peshawar and Murree	— ·018	— ·027	— ·020	— ·022	— ·022
Ludhiana and Simla	+ ·003	— ·025	— ·013	+ ·012	— ·006
Roorkee and Chakrata	— ·017	— ·029	— ·020	...	...
Dhubri and Darjiling	— ·056	— ·035	— ·013	+ ·015	— ·022
Deesa and Mount Abu	— ·016	— ·016	+ ·008	+ ·005	— ·005
Khandwa and Pachmarhi	— ·016	— ·004	+ ·016	— ·004	— ·002
Madura and Kodaikanal	+ ·015	+ ·004	+ ·018	+ ·022	+ ·017

The pressure conditions were as unsteady in Persia, Arabia and the Indian Ocean as in India. The changes at Mauritius and Seychelles although similar to those in India during the first three months were in the opposite direction in September.

TABLE 42.

Station.	Departure of pressure from normal.				
	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"
Mauritius	— ·006	— ·023	+ ·041	+ ·008	+ ·005
Seychelles	— ·010	— ·036	+ ·007	— ·016	— ·014
Zanzibar	— ·022	— ·005	+ ·002	+ ·002	— ·006
Aden	+ ·026	— ·038	— ·003	— ·002	— ·004
Baghdad	— ·002	— ·061	— ·052	— ·012	— ·032
Bushire	+ ·054	— ·037	+ ·023	+ ·017	+ ·014
Jask	— ·010	— ·100	— ·026	+ ·002	— ·033
Muscat	+ ·035	— ·054	+ ·005	+ ·021	+ ·002

IV.—The retreating south-west monsoon period:—Pressure was largely above the normal in October, and in slight defect in the other two months:—

TABLE 43.

Month.	Departure from normal of mean 8 hrs. pressure.
	"
October	+ ·071
November	— ·010
December	— ·011

The local modifications of the pressure distribution were small and of no significance.

TABLE 44.

Division.	Excess of pressure departure of geographical mean for India.			
	October.	November.	December.	Period, October to December.
	"	"	"	"
Burma	— ·006	— ·002	— ·005	— ·004
Assam	+ ·015	+ ·003	+ ·003	+ ·007
Bengal	+ ·006	+ ·002	— ·004	+ ·001
Bihar and Orissa	+ ·015	+ ·004	— ·002	+ ·006
United Provinces	+ ·018	+ ·001	+ ·009	+ ·008
Punjab	+ ·008	0	+ ·011	+ ·006
North-West Frontier Province	— ·014	— ·016	0	— ·010
Sind	— ·025	— ·005	+ ·017	— ·004
Rajputana	— ·012	— ·008	+ ·007	— ·003
Bombay	— ·009	— ·005	— ·005	— ·006
Central India	0	+ ·003	— ·002	0
Central Provinces	+ ·013	+ ·006	— ·007	+ ·004
Hyderabad	+ ·004	+ ·003	— ·016	— ·003
Mysore	— ·019	— ·001	+ ·004	— ·005
Madras	— ·008	+ ·004	— ·001	— ·002

The vertical pressure gradient was on the whole considerably stronger than usual in October, particularly in the case of Lahore and Leh, and very nearly normal in November and December.

It is noteworthy that the unusual strength of the gradient in October was followed by abnormally disturbed weather in north-west India in November.

TABLE 45.

Pair of Stations.	Departure from normal of vertical pressure differences.			
	October.	November.	December.	Period, October to December.
	"	"	"	"
Jacobabad and Quetta	+ ·028	+ ·036	+ ·009	+ ·024
Lahore and Leh	+ ·037	— ·008	+ ·012	+ ·030
Peshawar and Murree	+ ·034	— ·006	+ ·020	+ ·015
Ludhiana and Simla	+ ·043	+ ·005	+ ·014	+ ·022
Roorkee and Chakrata	+ ·065	...	...	...
Dhubri and Darjiling	+ ·061	+ ·022	+ ·004	+ ·029
Deesa and Mount Abu	+ ·022	— ·002	+ ·016	+ ·008
Khandwa and Pachmarhi	+ ·002	— ·012	— ·009	— ·006
Madura and Kodaikanal	+ ·039	+ ·012	— ·003	+ ·019

In Persia, Arabia and the Indian Ocean pressure was above normal in the terminal months and deficient in November.

TABLE 46.

STATION.	DEPARTURE OF PRESSURE FROM NORMAL.			
	October.	November.	December.	Period, October to December.
	"	"	"	"
Mauritius	+·011	0	+·054	+·022
Seychelles	+·005	—·023	+·028	+·002
Zanzibar	+·015	—·004	—·031	+·014
Aden	+·012	—·020	0	—·003
Bushire	+·010	—·098	+·031	—·019

TABLE 46—*concld.*

STATION.	DEPARTURE OF PRESSURE FROM NORMAL.			
	October.	November.	December.	Period, October to December.
	"	"	"	"
Jask	+·014	—·071	+·011	—·015
Muscat	+·020	—·045	+·030	+·002

The year.—Atmospheric pressure in the plains of India was more or less in excess of the normal in the first half of 1914 as it had been during the last seven months of 1913; it varied irregularly in the rest of the year being in defect in July, August, November and December and greater than usual in September and October.

The extra Indian data show that during the greater part of the year the abnormalities of pressure over India were not a local phenomenon but extended southwards as far as the equatorial belt and westwards to Aden and Bushire. At Mauritius the parallelism was less marked, being shown in only six out of the twelve months:—

TABLE 47.

	DEPARTURE FROM NORMAL OF PRESSURE.											
	January.	February.	March.	April	May.	June.	July.	August.	September.	October.	November.	December.
	"	"	"	"	"	"	"	"	"	"	"	"
India	+·079	+·024	+·025	+·047	+·030	+·015	—·053	—·008	+·026	+·071	—·010	—·011
Bushire	+·041	+·024	+·063	+·019	+·067	+·054	—·037	+·023	+·017	+·010	—·098	+·031
Aden	+·056	+·004	+·044	+·028	+·032	+·026	—·038	—·003	—·002	+·012	—·020	0
Zanzibar	+·041	+·034	+·032	+·007	+·020	—·022	—·005	+·002	+·002	+·015	—·004	+·031
Seychelles	+·057	+·036	+·034	+·023	—·005	—·010	—·036	+·007	—·016	+·005	—·022	+·023
Mauritius	+·055	+·013	—·042	+·006	—·007	—·006	—·023	+·041	+·008	+·011	0	+·054

The abnormalities of pressure over India were not mere temperature effects, as recorded on the earth's surface.

TABLE 48.

MONTH.	DEPARTURE FROM NORMAL OF	
	Pressure.	Mean temperature.
	"	°
January	+·079	+1·0
February	+·024	+0·3
March	+·025	—1·2
April	+·047	—2·0
May	+·030	+0·1
June	+·015	+0·2
July	—·053	—0·4
August	—·008	—0·2
September	+·026	+0·2
October	+·071	—0·4
November	—·010	+1·3
December	—·011	+0·2
Year	+·020	—0·1

The statement below giving the monthly departures of pressure at Leh and Simla indicates that during at least half of the year the barometric condition of the lowest stratum of the atmosphere over north-west India was determined by that of the middle strata.

TABLE 49.

Station.	Departure from normal of pressure in											
	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.
	"	"	"	"	"	"	"	"	"	"	"	"
Leh	+·130	+·028	−·010	+·005	+·055	+·035	−·019	−·002	+·037	−·007	+·002	−·021
Simla	+·119	+·084	0	+·017	+·055	+·047	−·020	−·006	+.012	+·042	−·001	+·002
India	+·079	+·024	+·025	+·047	+·030	+·015	−·053	−·008	+·026	+·071	−·010	−·011

On the mean of the whole year the vertical gradient was of about its normal value

TABLE 50.

Pair of stations.	Departure from normal of vertical pressure differences.
	"
Jacobabad and Quetta	+·005
Lahore and Leh	+·007
Peshawar and Murree	−·007
Ludhiana and Simla	+·008
Dhubri and Darjiling	+·003
Deesa and Mount Abu	0
Khandwa and Pachmarhi	−·005
Madura and Kodaikanal	+·023

There is no evidence of a compensatory action in the pressure data for the limiting stations of the monsoon area.

TABLE 51.

Station.	Departure from normal of pressure.
	"
Mauritius	+·009
Seychelles	−·008
Zanzibar	+·013
Aden	+·012
Bushire	+·018
Muscat	+·029

Storms of the year.

BAY OF BENGAL.

No.	Month.	Date.	Greatest observed barometric depression.	Intensity of storm.	Details of storm.
1	May	13th to 17th.	·3"	Considerable.	This storm was developed on the 12th to the west of the Andamans and thence travelled along a north-westerly path to the north Madras coast which it apparently crossed near Gopalpur on the night of the 15th. As usually happens in the case of a storm fed exclusively by the Bay current it turned sharply to the east during the 16th and moving rapidly in a north-easterly direction had reached the neighbourhood of Burdwan by the morning of the 17th. It disappeared completely during the succeeding 24 hours. It was of considerable intensity with an inner area of violent winds and gave heavy rain to the greater part of north-east India. Winds of force 11 to 12 were recorded on board the *Greiffenfels*.

No.	Month.	Date.	Greatest observed barometric depression.	Intensity of storm.	Details of storm.
2	June	2nd and 3rd.	·74"	Severe	This was generated on the 1st over the north of the Bay nearly midway between Gopalpur and Kyaukpyu, and intensifying rapidly travelled in an east-north-east direction on the 2nd. It crossed the coast near Akyab apparently after 8 hrs. on the 3rd and was soon after broken up by the Arakan Yoma. The greatest wind-force actually recorded on board vessels, which were however at a considerable distance from the centre, was 10, but it is almost certain that the storm was a severe disturbance, and may have been a true cyclone with a calm centre. It was particularly noteworthy for its unusual easterly course.

No.	Month.	Date.	Greatest observed barometric depression.	Intensity of storm.	Details of storm.
3	June	24th to 28th.	·3″	Moderate	This originated off the north Madras coast on the 23rd in front of the permanent advance of the monsoon. It passed inland near Gopalpur on the afternoon of the 24th and travelling westwards along a line joining Gopalpur and Hyderabad (Sind) disappeared completely over Baluchistan during the 29th. Very heavy rain occurred on the southern side of its track, and more especially in Hyderabad. The strongest winds actually recorded on board vessels were of force 8.
4	July	10th to 13th.	·33″	Moderate	This formed off the north Madras coast on the 9th and travelling northwards crossed the coast between False Point and Balasore on the morning of the 11th. Its rate of movement increased rapidly during the day, and by the morning of the 12th it had reached the neighbourhood of Sutna. On the morning of the 13th it was near Nowgong, but had become much reduced in intensity and disappeared almost completely during the day. The rainfall associated with it was only moderate in amount. The strongest winds given by it over the Bay did not exceed 7 in force.
5	September.	13th to 20th.	·33″	Considerable.	This storm was formed off the Ganjam coast on the 12th, passed inland between Calingapatam and Vizagapatam on the early morning of the 13th and then advanced into the Nizam's Dominions, the centre lying near Nizamabad on the morning of the 14th. Its line of travel changed to north-west during the day and by the morning of the 15th it had reached the neighbourhood of Chanda. At 8 hours of the 16th the centre was apparently between Indore and Surat, and at the same hour of the 17th to the north of Ahmadabad. It then turned to north and subsequently to north-east and east and travelling past Ajmer and Delhi broke up on the
5	September.	18th to 20th.	·33″	Considerable.	20th against the Kumaon hills. Its depth was slight, only about a seventh of an inch, at the time of its entry into north Madras, but increased as it progressed inland to a third of an inch on the 16th and 17th. The depth then diminished, and was only a tenth of an inch on the last day of the storm's existence. Heavy rainfall occurred practically along the whole of its track, but the storm was specially remarkable for the excessive downpours it gave locally in Gujarat, the east Punjab and the west of the United Provinces.
6	October.	2nd to 5th.	·24″	Slight	This storm apparently formed to the east of Port Blair on the 1st. It travelled roughly north-westwards on the 2nd and 3rd and then turning to north and north-east crossed the coast to the north of Akyab on the morning of the 6th. It was probably feeble throughout and was remarkable only for the heavy rain it occasioned over Burma, particularly along the Arakan coast. The greatest force of the winds actually experienced was 7.
7	December.	19th to 21st.	·42″	Considerable (?).	This storm was generated over the extreme south of the Bay on the 18th. Its line of travel was almost due north on the 19th and north-east from the morning of the 20th up to about 23 hours of the 21st when it struck the coast near Akyab. As usually happens it diminished rapidly in intensity during its passage inland, and on the morning of the 22nd was shown as a diffuse low pressure area on the pressure chart. In the absence of information regarding the centre it is not possible to form an accurate estimate of the intensity of the storm. The strongest winds actually recorded were of force 10 It was remarkable chiefly for its northerly path and the unseasonable rain which it gave to Burma.

No storms were recorded over the Arabian Sea.

Winds.

The mean direction of the wind and the mean diurnal movement of the air as measured by Robinson anemometers are given for all second class stations in Table A in each Monthly Weather Review. The normal values are also stated for the sake of ready comparison. The normal data of these elements, utilized in Table A of the Monthly Weather Reviews of the year 1914, will be found in a collected form in Tables XXII, XXVI and XXVII of Volume XVII of Indian Meteorological Memoirs. The mean 8 hours wind directions for each month are laid down in the first chart in

each Monthly Review. They are calculated in the usual manner by finding the resultant of equal winds in the directions actually observed at 8 hours and given in Table B, in each Monthly Review. As a general rule, the mean 8 hours wind directions vary little from the mean wind directions (calculated from the 10 and 16 hours wind data) in Table A of the Monthly Reviews, but in some cases and at certain seasons of the year they differ very considerably. The normal values used in Table B have been published in Volume XVII of the departmental Memoirs.

Hitherto the factor representing the ratio of air movement to travel of Beckley cups had in India, as in other countries, been taken as 3·0; but as in 1911 it had been generally accepted that the factor should be 2·2 the change to 2·2 was made in the Monthly Weather Review of January 1912 (see note on page 8 there).

The following is a summary of the more important features of the air movement over India for each period of the year 1914:—

I.—The cold weather period.—(*a*) The rate of air movement was low generally over northern India, the usual region of the winter storms, but was high in Mysore and Madras.

(*b*) Winds blew with more than customary steadiness in Assam, the Punjab, Sind and Rajputana, but were very unsteady in Bengal, Bihar and Orissa, the United Provinces and Central India.

(*c*) There were no marked persistent irregularities in the direction of air movement.

II.—The hot weather period.—(*a*) In most parts of northern India, but more especially in the coast districts, the air motion was feebler than usual, while over the Peninsula generally the rate of movement was either normal or in excess.

(*b*) The degree of steadiness was unusually low in Burma, Bengal and Central India, and very high in the Punjab.

(*c*) No large deviations from the normal course of air movement occurred in March and April. In May there was an undue easterly element in the mean wind directions over the tract of country lying between Gaya and Multan; this coupled with the fact that over northern India as a whole the wind direction was fairly normal would suggest that the large excess of snowfall in the Punjab Himalayas was exercising no perceptible influence on the wind system in northern India.

(*d*) Over the west of the equatorial belt according to the data of ships the northward extension of the southeast trades was materially retarded. This is confirmed by the records of Seychelles where winds were remarkably light and unsteady in May.

III.—The southwest monsoon period.—The air movement was appreciably in defect of the normal at the two extremities of northern India, that is in Bengal and the Indus valley, and also in Bombay and Central India: over the rest of the country the recorded velocities departed to no great extent from those proper to the period.

TABLE 52.

Division.	Departure from normal of wind velocity in miles per hour.				
	June.	July.	August.	September.	Period, June to September.
Burma	—0·3	+0·1	+0·4	—0·5	—0·1
Assam	—0·3	0	—0·3	—0·7	—0·3
Bengal	—1·7	—1·2	—0·9	—1·1	—1·2
Bihar and Orissa	—0·5	+0·2	0	—0·3	—0·1
United Provinces	—0·6	—0·1	—0·4	0	—0·3
Punjab	+0·2	+0·5	—0·1	+0·4	+0·3
North-West Frontier Province.	—0·6	—0·5	—0·7	—0·5	—0·6
Sind	—3·9	—1·1	—0·6	—1·2	—1·7
Rajputana	—0·6	+0·5	+1·1	+0·6	+0·4
Bombay	—1·1	—0·9	—1·3	—0·9	—1·1
Central India	—1·5	—0·7	—1·2	—0·1	—0·9
Central Provinces	—0·3	+0·4	—0·2	—0·4	—0·1
Hyderabad	+1·2	+2·3	—1·0	—0·5	+0·5
Mysore	+0·8	+1·6	+0·9	—0·2	+0·8
Madras	+0·2	+1·1	+0·4	+0·3	+0·5

The deviations of air currents from the normal course were as a rule small, irregular and of no great significance.

Although differing but slightly from the normal as regards direction the winds were on the whole more than usually steady in July, of about average steadiness in August and decidedly unsteady in June and September.

TABLE 53.

Division.	Departure from normal, of wind steadiness.			
	June.	July.	August.	Septem
Burma	—4	+3	+2	—16
Assam	—11	+25	+7	+11
Bengal	—23	—6	—7	—13
Bihar and Orissa	—18	+3	+8	—11
United Provinces	+7	+18	+2	—2
Punjab	+5	+16	—3	—5
North-West Frontier Province	+5	+11	—8	—2
Sind	—14	+11	+8	—10
Rajputana	—3	+1	+1	—25
Bombay	—5	+9	0	—17
Central India	—17	—6	+4	—25
Central Provinces	—16	+7	+3	—14
Hyderabad	—4	+11	+1	0
Mysore	+1	—1	+8	—9
Madras	+6	+6	—4	—5

In the west of the equatorial belt the winds were throughout characterised by great steadiness except during the first fortnight of June when light irregular airs were recorded on several occasions.

IV.—The retreating south-west monsoon period.—The only important feature of the air circulation was the extremely rapid establishment of the north-east monsoon over the Indian seas, so much so that in October the winds prevailing in Lower Burma, the Andamans, along the Coromandel coast and at Colombo were such as are characteristic of the middle of November. This is borne out by the records of Seychelles and Zanzibar where in November westerly winds predominated to the exclusion of the normal south-east trades:

TABLE 54.

STATION.	MEAN WIND DIRECTION.	
	Actual in November 1914.	Normal in November.
Zanzibar	S 31°W	S 45°E
Seychelles	N 86°W	S 56°E

The weakness of the autumn rains over the greater part of the Peninsula was doubtless connected with these abnormalities in the wind system.

Humidity.

The departures from normal of the mean monthly and annual aqueous vapour pressure and relative humidity for first and second class stations for the year 1914 are given in Tables 55 and 56. The normal values employed in the determination of the departures are given in Tables XXX and XXXIII of the Indian Meteorological Memoirs, Volume XVII. The tables 57 and 58 give departure data of 8 hrs. aqueous vapour pressure and relative humidity for each month of the year and for the year for the fifteen chief political divisions.

TABLE 55.—*Departure of the monthly and annual mean vapour pressure data of 1914 from average of past years.*

DIVISION.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		"	"	"	"	"	"	"	"	"	"	"	"	"
BENGAL	Calcutta	+·029	+·081	—·045	—·063	+·005	—·044	—·005	—·015	—·031	—·079	—·038	+·003	—·017
UNITED PROVINCES OF AGRA AND OUDH.	Allahabad	—·050	—·049	—·067	—·039	—·010	—·070	+·021	—·001		(Discontinued.)			
PUNJAB	Lahore	+·031	+·023	—·032	+·034	+·058	+·098	+·118	+·010	+·077	+·074	+·106	+·006	+·050
RAJPUTANA	Jaipur	—·038	—·054	—·095	—·052	—·094	+·018	+·038	—·009	+·056	+·050	+·080	—·056	—·013
BOMBAY	Bombay	+·012	—·036	—·067	—·044	+·009	—·009	—·002	+·002	+·009	—·040	—·008	—·054	—·019
MYSORE	Bangalore	—·027	—·026	—·027	—·023	—·010	—·042	+·003	+·002	+·012	+·014	—·012	+·005	—·011
MADRAS	Madras	—·022	—·005	+·014	+·002	—·012	—·048	—·013	—·002	+·045	+·018	+·020	—·006	—·001
HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN.	Katmandu	—·003	+·038	—·019	0	—·003	—·016	+·003	—·003	—·021	—·093	—·008	—·044	—·009
EXTRA INDIA	Seychelles	+·012	—·011	—·018	+·010	+·015	+·057	+·011	+·007	+·020	+·041	—·016	—·027	+·008
	Mauritius	+·001	+·066	+·042	+·018	+·013	+·064	+·016	—·007	+·008	—·032	—·028	—·054	+·009

TABLE 56.—*Departure of the monthly and annual mean relative humidity data of 1914 from the average of past years.*

DIVISION.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
BENGAL	Calcutta	+ 1	+ 2	— 6	— 1	+ 2	— 2	0	— 3	— 2	—10	— 8	— 4	— 3
UNITED PROVINCES OF AGRA AND OUDH.	Allahabad	—12	—11	— 3	— 1	+ 2	— 9	+ 5	+ 1		(Discontinued).			
PUNJAB	Lahore	— 2	+ 7	0	+ 7	+ 4	+ 5	+13	— 2	+10	+15	+14	+ 5	+ 6
RAJPUTANA	Jaipur	—15	— 8	— 9	— 5	—10	— 1	+ 1	— 5	+ 1	+ 4	+ 7	— 7	— 4
BOMBAY	Bombay	— 2	— 2	— 2	— 1	— 2	— 3	— 1	— 2	— 2	— 9	— 6	— 7	— 3
MYSORE	Bangalore	— 2	— 4	— 3	— 2	— 2	— 8	+ 1	0	— 3	+ 2	— 4	— 5	— 3
MADRAS	Madras	— 3	— 2	— 1	+ 2	— 3	— 6	— 3	0	+ 3	+ 3	+ 1	— 5	— 1
HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN.	Katmandu	— 2	— 2	— 1	+ 5	— 2	— 4	— 2	— 2	— 6	— 9	— 4	— 7	— 3
EXTRA INDIA	Seychelles	— 3	— 4	+ 3	0	— 3	— 3	— 3	— 3	— 3	— 2	— 5	— 6	— 3
	Mauritius	0	+ 3	+ 1	+ 1	+ 1	+ 1	+ 2	— 2	— 1	— 2	— 3	— 3	0

TABLE 57.—*Departure of the mean monthly and annual aqueous vapour pressure from the normal in the fifteen chief political divisions of India in 1914.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	"	"	"	"	"	"	"	"	"	"	"	"	"
Burma	—·034	—·026	—·004	—·066	—·019	—·013	+·002	—·007	—·010	—·051	+·025	+·035	—·014
Assam	—·013	+·021	—·014	—·076	+·001	—·021	+·015	0	—·019	—·026	—·024	+·019	—·016
Bengal	+·009	+·053	—·021	—·089	—·065	—·013	—·002	+·003	—·018	—·066	—·033	—·005	—·016
Bihar and Orissa	+·007	+·018	—·011	—·042	+·015	—·011	+·013	+·003	—·007	—·060	—·039	+·005	—·009
United Provinces	—·029	—·028	—·022	+·015	+·057	—·013	+·049	—·003	+·011	—·023	+·026	—·020	+·002
Punjab	+·017	0	—·038	—·006	—·012	+·040	+·078	—·014	+·045	+·070	+·117	+·012	+·026
North-West Frontier Province	+·039	+·001	—·016	+·018	+·002	+·041	+·097	—·012	+·085	+·087	+·137	+·013	+·041
Sind	+·060	+·009	—·038	+·050	+·086	+·075	+·118	+·031	+·093	+·187	+·178	—·011	+·070
Rajputana	—·012	—·055	—·065	—·053	—·123	—·019	—·006	—·055	—·007	+·023	+·058	—·066	—·032
Bombay	—·018	+·004	—·036	—·018	+·032	+·011	+·027	+·006	+·037	—·012	+·061	+·001	+·008
Central India	—·024	+·010	—·033	+·021	—·045	—·021	+·030	—·004	+·021	—·009	+·045	—·041	—·010
Central Provinces	—·056	—·055	—·023	+·008	—·022	—·004	—·001	—·004	+·002	—·033	+·006	—·015	—·016
Hyderabad	—·031	—·016	0	—·025	+·016	—·019	+·011	0	+·012	—·044	—·008	+·050	—·005
Mysore	—·041	—·018	—·043	—·064	—·005	—·021	+·008	+·005	+·013	—·005	—·004	+·027	—·012
Madras	—·033	—·017	0	—·028	+·010	—·013	—·006	—·009	+·015	—·011	—·013	+·024	—·007
Mean of India	—·016	—·016	—·024	—·025	—·005	—·003	+·022	—·007	+·013	—·011	+·030	+·001	—·003

TABLE 58.—*Departure of the mean monthly and annual relative humidity from the normal in the fifteen chief political divisions of India in 1914.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma	+ 1	— 1	+1	—2	—2	+1	+ 1	+1	—1	0	+ 3	+ 2	0
Assam	0	0	—2	+1	—3	—7	— 3	0	—2	— 2	— 4	— 3	—2
Bengal	+ 3	+ 4	—1	+2	+2	—3	0	—1	—2	— 3	— 3	+ 3	0
Bihar and Orissa	+ 5	+ 2	—1	+4	+6	—3	+ 1	+1	—1	— 4	— 6	— 3	0
United Provinces	— 8	— 7	—1	+4	+5	—8	+ 2	—1	—2	— 2	— 3	— 5	—2
Punjab	+ 1	+ 3	—1	+6	+1	+1	+10	—2	+4	+14	+18	+ 9	+5
North-West Frontier Province	+10	+ 6	+1	+9	+1	+3	+10	+1	+5	+15	+21	+11	+8
Sind	+ 6	+ 4	—4	+5	+2	+4	+ 9	—2	+2	+16	+19	— 1	+5
Rajputana	— 7	— 9	—5	0	—7	0	+ 3	—2	—2	0	+ 5	—12	—3
Bombay	— 2	+ 1	+1	+3	+1	+1	+ 3	0	+3	— 3	0	0	+1
Central India	— 9	—13	—4	+3	+3	—1	+ 4	0	+2	— 1	+ 1	— 6	—2
Central Provinces	—12	—12	—1	+5	+1	+1	+ 3	—1	+1	— 5	— 4	— 4	—2
Hyderabad	— 4	— 4	—4	—2	0	0	+ 3	+2	+2	— 2	— 3	0	—1
Mysore	— 2	— 3	—5	—6	—2	—5	+ 1	+3	—1	— 1	— 1	— 1	—2
Madras	— 2	— 2	—1	—2	+1	—2	— 1	+1	+1	0	— 2	0	—1
Mean of India	— 2	— 3	—1	+2	+1	—1	+ 3	0	0	0	+ 2	— 2	0

I.—The cold weather period.—Humidity, both absolute and relative, was somewhat in excess in the valley of the Indus, and appreciably in defect in the United Provinces, Rajputana, Central India and the Central Provinces, but over the rest of the plains of India the hygrometric conditions were on the mean of the period fairly normal.

TABLE 59.

Division.	Departure of mean 8 hrs. vapour pressure from normal.			Departure of mean 8 hrs. relative humidity from normal.		
	January.	February.	Period, January and February.	January.	February.	Period, January and February.
	"	"	"			
Burma	−·034	−·026	−·030	+ 1	− 1	0
Assam	−·013	+·021	+·004	0	0	0
Bengal	+·009	+·053	+·031	+ 3	+ 4	+ 3
Bihar and Orissa	+·007	+·018	+·013	+ 5	+ 2	+ 3
United Provinces	−·029	−·028	−·029	− 8	− 7	− 7
Punjab	+·017	0	+·009	+ 1	+ 3	+ 2
North-West Frontier Province.	+·039	+·001	+·020	+10	+ 6	+ 8
Sind	+·060	+·009	+·035	+ 6	+ 4	+ 5
Rajputana	−·012	−·055	−·033	− 7	− 9	− 8
Bombay	−·018	+·004	−·007	− 2	+ 1	− 1
Central India	−·024	−·060	−·042	− 9	−13	−11
Central Provinces	−·056	−·055	−·055	−12	−12	−12
Hyderabad	−·031	−·016	−·023	− 4	− 4	− 4
Mysore	−·041	−·018	−·029	− 2	− 3	− 3
Madras	−·033	+·017	−·025	− 2	− 2	− 2

These departures were in the main parallel with those of rainfall.

In the highlands to the west of the Indus conditions of humidity differed little from the normal, but in the Himalayan region as also in the Palni hills the air was somewhat drier than usual, particularly as regards the degree of saturation.

TABLE 60.

Station.	Departure of mean 8 hrs. vapour pressure from normal.			Departure of mean 8 hrs. relative humidity from normal.		
	January.	February.	Period, January and February.	January.	February.	Period, January and February.
	"		"			
Aden	−·026	+·051	+·013	− 3	− 4	− 3
Baghdad	+·003	+·003	+·003	− 3	+ 8	+ 3
Bushire	+·035	+·015	+·025	+ 4	+ 7	+ 5
Tehran	+·042	−·001	+·021	+ 6	+14	+10
Ispahan	+·003	−·031	−·014	− 6	+ 2	− 2
Jask	+·020	−·100	−·040	+ 4	− 6	− 1
Muscat	+·023	+·011	+·017	+ 4	+ 2	+ 3
Chaman	+·005	+·003	+·004	− 9	+16	+ 3
Quetta	−·001	−·012	−·007	0	+ 9	+ 5
Cherat	−·017	−·020	−·019	−13	− 2	− 7
Murree	−·004	−·004	−·004	−12	− 1	− 7
Gilgit	−·003	+·008	+·003	− 4	+ 2	− 1
Srinagar	+·015	+·005	+·010	− 7	− 4	− 5
Skardu	...	...	...	−14	−19	−17
Dras	...	...	...	+ 2	...	...
Simla	−·018	−·007	−·013	−14	− 3	− 9
Leh	+·012	+·017	+·015	+10	+10	+10
Chakrata	−·006	+·004	−·001	− 9	+ 3	− 3
Mukteswar	...	...	...	−14	0	− 7
Darjiling	−·003	−·015	−·009	− 6	−10	− 8
Pachmarhi	−·006	−·009	−·007	0	+ 2	+ 1
Mount Abu	−·001	+·012	−·007	− 5	− 1	− 3
Kodaikanal	...	...	...	−13	− 9	−11

II.—The hot weather period.—On the average of the whole season there was nothing strikingly abnormal in the hygrometric conditions of the plains :—

TABLE 61.

Division.	Departure of mean 8 hrs. vapour pressure from normal.				Departure of mean 8 hrs. relative humidity from normal.			
	March.	April.	May.	Period, March to May.	March.	April.	May.	Period, March to May.
	"	"	"	"				
Burma	—·004	—·066	—·019	—·030	+ 1	— 2	— 2	— 1
Assam	—·014	—·076	+·001	—·030	— 2	+ 1	— 3	— 1
Bengal	—·021	—·089	—·005	—·038	— 1	+ 2	+ 2	+ 1
Bihar and Orissa	—·011	—·042	+·015	—·013	— 1	+ 4	+ 6	+ 3
United Provinces	—·022	+·015	+·057	+·017	— 1	+ 4	+ 5	+ 3
Punjab	—·038	—·006	—·012	—·019	— 1	+ 6	+ 1	+ 2
North-West Frontier Province	—·016	+·018	+·002	+·001	+ 1	+ 9	+ 1	+ 4
Sind	—·038	+·050	+·086	+·033	— 4	+ 5	+ 2	+ 1
Rajputana	—·065	—·053	—·123	—·080	— 5	0	— 7	— 4
Bombay	—·036	—·018	+·032	—·007	+ 1	+ 3	+ 1	+ 2
Central India	—·033	+·021	—·045	—·019	— 4	+ 3	+ 3	+ 1
Central Provinces	—·023	+·008	—·022	—·012	— 1	+ 5	+ 1	+ 2
Hyderabad	0	—·026	+·016	—·003	— 4	— 2	0	— 2
Mysore	—·043	—·064	—·005	—·037	— 5	— 6	— 2	— 4
Madras	0	—·028	+·010	—·006	— 1	— 2	+ 1	— 1

In the Himalayan region as well as in the highlands to the west of the Indus the conditions were on the whole variable.

TABLE 62.

STATION.	DEPARTURE OF MEAN 8 HRS. VAPOUR PRESSURE FROM NORMAL.				DEPARTURE OF MEAN 8 HRS. RELATIVE HUMIDITY FROM NORMAL.			
	March.	April.	May.	Period, March to May.	March.	April.	May.	Period, March to May.
	"	"	"	"				
Aden	−·006	+·029	−·003	+·007	− 2	+ 1	− 1	− 1
Baghdad	−·017	−·045	−·133	−·065	− 1	− 2	−14	− 6
Bushire	+·008	+·036	−·021	+·008	+ 5	+ 4	0	+ 3
Tehran	−·019	...	...	...	+ 2	...	...	...
Ispahan	−·070	−·043	−·108	−·074	−17	+ 9	−13	− 7
Jask	−·037	−·003	−·014	−·018	− 1	+ 7	+ 6	+ 4
Muscat	−·023	+·011	+·037	+·008	− 4	− 1	− 2	− 2
Chaman	−·056	+·091	+·090	+·042	+ 3	+10	+13	+ 9
Quetta	−·029	−·013	−·030	−·024	+ 9	+10	+ 4	+ 8
Cherat	−·046	−·003	+·014	−·012	− 7	+ 8	+ 7	+ 3
Murree	−·039	−·024	−·002	−·022	− 5	+ 5	+ 4	+ 1
Gilgit	+·003	+·031	+·068	+·034	+ 2	+ 1	+ 6	+ 3
Kashgar	−·037	−·024	+·021	−·013	−14	− 2	+ 8	− 3
Srinagar	−·023	−·029	−·036	−·029	− 6	− 5	− 7	− 6
Skardu	...	...	...	...	−10	0	+ 4	− 2
Dras	...	...	...	...	...	− 6	−10	...
Simla	−·010	−·030	+·016	− 008	0	− 1	+ 4	+ 1
Leh	0	−·004	−·047	−·017	+ 2	− 6	−19	− 8
Chakrata	+·002	+·017	+·080	+·033	+ 9	+10	+16	+12
Mukteswar	...	...	...	...	+ 4	+ 2	+13	+ 6
Darjiling	−·037	−·057	−·025	−·040	− 6	+ 5	− 2	− 1
Pachmarhi	+·027	+·045	+·008	+·027	+ 9	+10	+ 1	+ 7
Mount Abu	−·033	−·023	−·032	−·029	0	− 2	− 7	− 3
Kodaikanal	...	...	...	...	+ 6	+ 6	+ 3	+ 5

III.—The south-west monsoon period.—There was somewhat more vapour than usual in the Punjab, the North-West Frontier Province and Sind, but elsewhere in the plains the recorded values of absolute humidity agreed closely with the normal. The relative humidity of the air also departed to no significant extent from the average.

TABLE 63.

Division.	Departure of mean 8 hrs. vapour pressure from normal.					Departure of mean 8 hrs. relative humidity from normal.				
	June.	July.	August.	September.	Period, June to September.	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"					
Burma	—·013	+·002	—·007	—·010	—·007	+ 1	+ 1	+ 1	— 1	+ 1
Assam	—·021	+·015	0	—·019	—·006	— 7	— 3	0	— 2	— 3
Bengal	—·013	—·002	+·003	—·018	—·007	— 3	0	— 1	— 2	— 1
Bihar and Orissa	—·011	+·013	+·003	—·007	—·001	— 3	+ 1	+ 1	— 1	— 1
United Provinces	—·013	+·049	—·003	+·011	+·011	— 8	+ 2	— 1	— 2	— 2
Punjab	+·040	+·078	—·014	+·045	+·037	+ 1	+10	— 2	+ 4	+ 3
North-West Frontier Province	+·041	+·097	—·012	+·085	+·053	+ 3	+10	+ 1	+ 5	+ 5
Sind	+·075	+·118	+·031	+·093	+·079	+ 4	+ 9	— 2	+ 2	+ 3
Rajputana	—·019	—·096	—·055	—·007	—·022	0	+ 3	— 2	— 2	0
Bombay	+·011	+·027	+·006	+·037	+·020	+ 1	+ 3	0	+ 3	+ 2
Central India	—·021	+·080	—·004	+·021	+·007	— 1	+ 4	0	+ 2	+ 1
Central Provinces	—·004	—·001	—·004	+·002	—·002	+ 1	+ 3	— 1	+ 1	+ 1
Hyderabad	—·019	+·011	0	+·012	+·001	0	+ 3	+ 2	+ 2	+ 2
Mysore	—·021	+·008	+·005	+·013	+·001	— 5	+ 1	+ 3	— 1	— 1
Madras	—·013	—·006	—·009	+·015	—·003	— 2	— 1	+ 1	+ 1	0

Over Persia the distribution of humidity was irregular, but further east in the hills of Baluchistan and of the North-West Frontier Province, the air was on the mean of the season damper than usual, both absolutely and relatively. In Kashmir and the Himalayan region conditions were on the whole fairly normal.

TABLE 64.

STATION.	DEPARTURE OF MEAN 8 HRS. VAPOUR PRESSURE FROM NORMAL.					DEPARTURE OF MEAN 8 HRS. RELATIVE HUMIDITY FROM NORMAL.				
	June.	July.	August.	September.	Period, June to September.	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"					
Aden	+·077	−·019	+·095	+·017	+·043	+ 3	+ 2	+ 3	+ 3	+ 3
Baghdad	−·082	−·077	−·130	−·101	−·097	− 3	− 1	− 5	− 3	− 3
Bushire	−·048	−·076	−·008	−·004	−·034	+ 3	+ 2	+ 4	+ 6	+ 4
Tehran	+·051	+·109	+·082	+·143	+·096	+10	+11	+12	+23	+14
Ispahan	−·107	+·001	−·049	+·004	−·038	− 9	− 4	− 6	0	− 5
Jask	−·009	+·028	−·048	+·023	−·001	+ 7	+ 5	+ 4	+ 6	+ 5
Muscat	−·023	−·020	−·069	−·015	−·032	− 2	0	− 2	+ 2	− 1
Chaman	+·197	+·024	+·132	+·034	+·097	+18	+ 5	+16	+13	+13
Quetta	+·085	+·043	−·020	+·055	+·041	+16	+11	+ 6	+17	+13
Cherat	+·018	+·059	+·023	+·071	+·043	+ 4	+14	− 1	+13	+ 7
Murree	+·037	+·066	−·011	+·052	+·036	+11	+14	0	+13	+ 9
Gilgit	+·204	+·192	+·088	+·143	+·157	+12	+11	+13	+15	+13
Kashgar	+·154	+·085	+·034	+·035	+·065	+10	+ 2	+ 4	+ 3	+ 5
Gulmarg	...	...	...	...	...	−10	− 6	− 4	− 5	− 6
Srinagar	−·003	+·005	−·070	+·027	−·010	− 9	− 8	− 9	− 8	− 9
Skardu	...	...	...	...	...	+13	+20	+13	+ 2	+12
Dras	...	...	...	...	...	− 7	0	− 3	+ 2	− 2
Simla	+·023	+·016	−·009	−·001	+·007	+ 2	+ 3	+ 1	+ 2	+ 2
Leh	+·089	+·067	−·014	+·062	+·039	+ 3	+12	+ 3	+13	+ 8
Chakrata	+·038	+·019	+·001	+·008	+·017	+ 8	+ 4	0	+ 5	+ 4
Muktesar	...	...	...	...	...	+13	+ 3	+ 1	+ 2	+ 5
Darjiling	−·016	−·002	−·002	−·002	−·005	− 3	− 1	+ 2	−17	− 5
Pachmarhi	+·007	+·086	+·023	+·042	+·027	+ 3	+ 7	+ 3	+ 6	+ 5
Mount Abu	+·080	+·037	+·003	+·064	+·046	+ 5	+ 1	− 2	+ 2	+ 1
Kodaikanal	...	...	...	...	...	0	+ 5	− 3	+ 6	+ 2

IV.—The retreating south-west monsoon period :— Except in the Punjab, the North-West Frontier Province and Sind where both the vapour pressure and the relative humidity were distinctly higher than usual conditions were nearly normal throughout the plains of India.

TABLE 65.

Division.	Departure of mean 8 hrs. vapour pressure from normal.				Departure of mean 8 hrs. relative humidity from normal.			
	October.	November.	December.	Period, October to December.	October.	November.	December.	Period, October to December.
	*	*	*	*				
Burma	−·061	+·025	+·035	+·003	0	+ 3	+ 2	+ 2
Assam	−·066	−·024	+·019	−·030	− 2	− 4	− 3	− 3
Bengal	−·066	−·033	−·005	−·035	− 3	− 3	− 3	− 3
Bihar and Orissa	−·060	−·039	+·005	−·031	− 4	− 6	− 3	− 4
United Provinces	−·023	+·026	−·020	−·006	− 2	− 3	− 5	− 3
Punjab	+·070	+·117	+·012	+·066	+14	+18	+ 9	+14
North-West Frontier Province	+·097	+·127	+·013	+·079	+15	+21	+11	+16
Sind	+·127	+·173	−·011	+·118	+16	+16	− 1	+10
Rajputana	+·024	+·058	−·066	+·005	0	+ 5	−12	− 2
Bombay	−·012	+·061	+·001	+·017	− 3	0	0	− 1
Central India	−·009	+·045	−·041	−·002	− 1	+ 1	− 6	− 2
Central Provinces	−·033	+·006	−·015	−·014	− 5	− 4	− 4	− 4
Hyderabad	−·044	−·008	+·050	−·001	− 7	− 3	0	− 3
Mysore	−·005	−·004	+·027	+·006	− 1	− 1	− 1	− 1
Madras	−·011	−·012	+·024	0	0	− 2	0	− 1

The high humidity in upper India was a result in part of the excessive summer rainfall and partly of the abnormally early commencement of winter actions.

In Persia, Baluchistan and the hills of the North-West Frontier Province, as in the plains of upper India, humidity was high in October and November and very nearly normal in December. In the Himalayas on the other hand the departures from the average condition were throughout small and irregular.

TABLE 66.

STATION.	DEPARTURE OF MEAN 8 HRS. VAPOUR PRESSURE FROM NORMAL.				DEPARTURE OF MEAN 8 HRS. RELATIVE HUMIDITY FROM NORMAL.			
	October.	November.	December.	Period, October to December.	October.	November.	December.	Period, October to December.
	"	"	"	"				
Aden	+·065	+·084	—·017	+·044	+ 5	+ 5	— 1	+ 3
Bushire	+·102	+·031	+·026	+·053	+ 8	+ 7	+11	+ 9
Tehran	...	...	+·004	...	...	...	+17	...
Ispahan	+·024	—·005	—·016	+·001	+ 4	+ 4	+ 1	+ 3
Jask	+·037	+·078	—·131	—·005	+10	+11	—14	+ 2
Muscat	—·068	+·021	—·080	—·041	— 9	+ 2	— 7	— 5
Chaman	+·088	+·063	+·034	+·039	+28	+32	+10	+23
Quetta	+·028	+·089	...	...	+22	+41	...	...
Cherat	+·076	+·048	—·021	+·034	+27	+16	— 2	+14
Murree	+·040	+·057	+·008	+·033	+22	+19	+ 6	+16
Gilgit	+·034	+·042	+·012	+·029	+12	+11	+12	+12
Kashgar	—·017	...	...	...	— 3	+22	...	...
Srinagar	—·006	+·030	—·013	+·004	— 7	— 3	— 4	— 5
Skardu	...	...	...	...	— 7	— 8	—39	—18
Simla	0	+·016	—·012	+·001	+ 5	+ 6	— 3	+ 3
Leh	—·018	—·011	0	—·010	— 7	—10	+ 1	— 5
Chakrata	—·025	...	...	...	+11	...	...	...
Mukteswar	...	...	...	...	+ 4	+ 9	— 4	+ 3
Darjiling	—·006	0	—·009	—·025	— 6	+ 5	— 3	— 1
Pachmarhi	+·036	+·061	+·013	+·037	+ 2	+ 5	0	+ 2
Mount Abu	+·044	+·069	—·002	+·044	+ 4	+ 9	— 1	+ 4
Kodaikanal	...	...	...	...	+ 3	0	+11	+ 6

The year.—In point of absolute humidity the months of January, February, March, April and October were dry and those of July, September and November damp; while in the rest of the year the amount of vapour held in the air was about normal. As the anomalous features of different months very nearly balanced each other the absolute humidity of the year as a whole was only ·003″ below the normal. The relative humidity departed even less from the average in the course of the year. The statement below shows that the general anomalies of vapour pressure followed those of rainfall in only six of the twelve months.

TABLE 67.

	Departure from normal of the Indian area.												
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Vapour pressure at 8 hours	−·016	−·016	−·024	−·025	−·005	−·003	+·022	−·007	+·013	−·021	+·030	+·001	−·003
Relative humidity at 8 hours	−2	+3	−1	+2	+1	−1	+3	0	0	0	+2	−2	0
Rainfall (percentage departure)	−80	+19	−15	+23	+13	+2	+27	−3	+7	+24	−14	+58	+7
Mean temperature	+1·0	+0·3	−1·2	−2·0	+0·1	+0·2	−0·4	−0·2	+0·2	−0·4	+1·3	+0·2	−0·1

Cloud.

Normal values of the mean monthly and annual amount of cloud at first and second class stations have been obtained from the whole of the available data up to the end of the year 1899, given in Tables XXXV and XXXVI of the Indian Meteorological Memoirs, Volume XVII. These means are the arithmetical averages of the cloud amounts as registered at 10 and 16 hrs., and hence represent the mean amount during the day period rather than of the whole 24 hours.

Departure data of this element of meteorological observation for first and second class stations for the year 1914 are given in Table 68. Table 69 gives the departures of the 8 hrs. cloud for the fifteen chief political provinces of India.

TABLE 68.—*Departure of the monthly and annual mean cloud amount of 1914 from the average of past years.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Bengal	Calcutta	+1·2	+0·5	+0·1	+1·9	+1·2	−0·8	+0·5	−0·3	−0·2	−1·3	−1·0	−0·1	+0·2
United Provinces of Agra and Oudh.	Allahabad	−0·1	+1·0	+0·5	+0·2	+1·3	−0·1	+0·6	+1·3	(Discontinued).			...	...
Punjab	Lahore	−0·3	+1·4	+0·3	−0·5	−0·5	−0·6	+2·1	−1·4	+1·0	+1·5	+0·9	−0·8	+0·3
Rajputana	Jaipur	−0·6	+0·8	−0·9	+0·4	−0·5	−0·5	+0·5	−1·3	+0·1	+0·4	+0·8	−1·3	−0·2
Bombay	Bombay	+0·8	+0·5	−0·4	−0·5	+0·2	−0·4	+0·2	−0·5	−0·3	−0·1	+1·4	+0·5	+0·1
Madras	Madras	−0·8	−1·3	−0·9	−0·8	0	−1·1	+0·7	−0·4	−1·3	+1·1	0	−0·8	−0·5
Hill Stations excluding Kashmir and Baluchistan.	Katmandu	−0·6	+0·2	−0·2	+0·7	−0·3	−0·7	+0·3	+0·2	−1·0	−0·3	−0·3	−0·9	−0·2
Extra India	Seychelles	0	−0·2	+0·3	+0·6	+0·6	−1·1	+1·0	−0·6	+0·9	−0·1	−0·6	−1·1	0
	Mauritius	+1·9	−0·2	0	+0·3	+0·4	+0·3	+0·2	+0·1	+0·3	+0·4	+0·3	−0·1	+0·4

TABLE 69.—*Departure of the mean monthly and annual cloud amount from normal in the fifteen chief political divisions of India in 1914.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma	+1·6	+0·9	+1·0	+0·7	+0·4	+0·4	+0·3	+0·1	—0·7	—0·5	+0·8	+0·3	+0·5
Assam	+1·5	—0·2	—1·6	—0·9	—2·9	—3·2	—2·5	—2·1	—3·4	—2·3	—1·2	+0·2	—1·5
Bengal	+1·2	+1·2	—0·6	+0·7	+0·3	—1·2	—0·1	—0·2	—1·5	—2·0	—0·9	+0·2	—0·2
Bihar and Orissa	+1·5	+0·6	+0·3	+0·8	+1·5	—0·9	+0·7	—0·2	—0·1	—1·6	—0·4	+0·4	+0·2
United Provinces	—0·5	+0·7	+0·2	0	+0·7	—1·4	+0·5	—0·5	—0·9	—0·3	—0·3	—0·9	—0·2
Punjab	—1·1	+0·7	—0·1	+0·1	—0·1	+0·3	+2·1	—0·8	+0·8	+1·6	+0·6	—0·8	+0·3
North West Frontier Province	—0·6	+0·9	—0·8	+0·5	—0·3	+0·2	+1·1	—0·1	+1·5	+2·1	+0·3	—1·1	+0·3
Sind	—1·0	+1·0	—0·3	—0·3	—0·6	0	+0·6	—1·8	—0·2	+1·0	+0·2	—1·4	—0·3
Rajputana	—0·8	0	—1·0	—0·4	—0·6	—1·0	+0·8	—1·3	—0·6	+0·2	+0·1	—1·4	—0·5
Bombay	+1·2	+0·9	—0·7	—0·4	+0·1	—0·2	+0·7	0	+0·1	+0·1	+0·7	+0·9	+0·3
Central India	+0·1	+0·8	—0·1	+0·6	+1·3	0	+1·9	+0·1	+0·4	—0·2	+0·3	—0·3	+0·4
Central Provinces	+1·3	+0·6	—0·1	0	+0·6	—0·4	+0·8	—0·4	—0·3	—1·1	+0·5	+0·7	+0·2
Hyderabad	+2·4	+0·7	—0·4	—1·2	+0·3	—1·5	—0·2	—0·1	—1·3	—1·7	—0·3	+1·1	—0·2
Mysore	+0·4	—0·3	—0·9	—1·9	+0·4	—0·7	+0·3	—0·3	—0·3	—0·1	—0·5	+0·2	—0·3
Madras	+0·9	+0·1	—0·1	—0·7	+0·6	—0·4	+0·5	+0·1	—0·2	—0·1	+0·4	+0·4	+0·1
Mean of India	+0·6	+0·6	—0·2	—0·1	+0·3	—0·6	+0·6	—0·4	—0·4	—0·4	+0·2	+0·1	0

I.—The cold weather period.—(*a*) On the mean of January and February there was a marked excess of cloud throughout the Indian region with the exception of the United Provinces, north-west India and Mysore where skies were clouded to about the customary extent.

TABLE 70.

DIVISION.	DEPARTURE OF MEAN 8 HRS. CLOUD AMOUNT FROM NORMAL.		
	January.	February.	Period, January and February.
Burma	+1·6	+0·9	+1·3
Assam	+1·5	—0·2	+0·7
Bengal	+1·2	+1·2	+1·2
Bihar and Orissa	+1·5	+0·6	+1·1
United Provinces	—0·5	+0·7	+0·1
Punjab	—1·1	+0·7	+0·2
North-West Frontier Province	—0·6	+0·9	+0·1
Sind	—1·0	+1·0	0
Rajputana	—0·8	0	—0·4
Bombay	+1·2	+0·9	+1·1
Central India	+0·1	+0·8	+0·5
Central Provinces	+1·3	+0·6	+0·9
Hyderabad	+2·4	+0·7	+1·5
Mysore	+0·4	—0·3	+0·1
Madras	+0·9	+0·1	+0·5

These anomalies were independent of those of rainfall over a large part of the country.

(*b*) The amount of cloud was on the whole greater than usual in Persia and Baluchistan and about normal in the Himalayan region.

TABLE 71.

Station.	Departure of mean 8 hrs. cloud amount from normal.		
	January.	February.	Period, January and February.
Aden	—0·9	+0·7	—0·1
Baghdad	+1·3	+1·5	+1·4
Bushire	+0·8	...	...
Tehran	+1·9	+0·4	+1·1
Ispahan	—0·6	+2·1	+0·7
Jask	+0·1	+2·3	+1·2
Muscat	—1·5	+1·4	—0·1
Meshed	—3·3	+0·4	—1·5
Chaman	—0·5	+1·2	+0·3
Quetta	—0·4	+1·4	+0·5
Cherat	+0·1	+1·8	+0·9
Murree	—0·8	+1·2	+0·2
Gilgit	+0·2	—0·1	+0·1
Kashgar	—2·3	—0·1	—1·2
Srinagar	—0·4	+0·9	+0·3
Simla	—1·0	+0·8	—0·1
Leh	+0·4	+1·4	+0·9
Chakrata	—2·4	+2·0	—0·2
Darjiling	+0·2	+0·6	+0·4
Pachmarhi	—1·7	—1·4	—1·5
Mount Abu	—0·1	+0·3	+0·3

II.—The hot weather period.—Considered over the period as a whole the cloud proportion was above the average in Burma, Bihar and Orissa and central India and about normal or in defect over the rest of the plains.

TABLE 72.

Division.	Departure of mean 8 hrs. cloud amount from normal.			
	March.	April.	May.	Period, March to May.
Burma	+1·0	+0·7	+0·4	+0·7
Assam	—1·6	—0·9	—2·9	—1·8
Bengal	—0·6	+0·7	+0·3	+0·1
Bihar and Orissa	+0·3	+0·8	+1·5	+0·9
United Provinces	+0·2	0	+0·7	+0·3
Punjab	—0·1	+0·1	—0·1	0
North-West Frontier Province, Sind	—0·8	+0·5	—0·3	—0·2
Rajputana	—1·3	—0·3	—0·6	—0·7
Bombay	—1·0	—0·4	—0·6	—0·7
Central India	—0·7	—0·4	+0·1	—0·3
Central Provinces	—0·2	+0·6	+1·3	+0·6
Hyderabad	—0·1	0	+0·6	+0·2
Mysore	—0·4	—1·2	+0·3	—0·4
Madras	—0·9	—1·9	+0·4	—0·8

These anomalies were almost parallel with those of rainfall.

In Persia and the hill districts of northern India the distribution of cloud was on the whole characterised by much irregularity.

TABLE 73.

Station.	Departure of mean 8 hrs. cloud amount from normal.			
	March.	April.	May.	Period, March to May.
Aden	—1·1	+1·6	—1·9	—0·2
Baghdad	0	+1·5	+0·6	+0·7
Bushire	+0·4	+2·6	—0·3	+1·0
Tehran	—1·7	...	...	...
Ispahan	—1·4	+0·9	+0·1	—0·1
Jask	—0·6	+1·9	+1·0	+0·5
Muscat	—1·3	+0·6	+0·3	—0·1
Meshed	—3·9	—0·7	—1·0	—1·9
Chaman	—0·3	+0·8	—0·4	0
Quetta	—0·5	+0·1	—0·3	—0·2
Kabul	...	+2·1	+1·9	...
Cherat	+0·4	+1·0	+0·6	+0·7

Station.	Departure of mean 8 hrs. cloud amount from normal.			
	March.	April.	May.	Period, March to May.
Murree	—0·8	+0·6	—0·7	—0·3
Gilgit	—1·5	—0·7	—1·4	—1·2
Kashgar	+0·1	+2·9	+2·7	+1·9
Srinagar	—0·3	+0·2	—0·6	—0·2
Simla	—1·1	—1·4	—0·2	—0·9
Leh	—0·6	—1·6	—1·4	—1·2
Chakrata	+0·3	—1·3	+1·4	+0·1
Darjiling	—0·8	+2·7	—0·4	+0·5
Pachmarhi	—1·3	—1·4	—0·3	—1·0
Mount Abu	—1·0	0	+0·1	—0·3

The irregular character of the departures in May is an indication that winter conditions were not prolonged beyond April.

III.—The south-west monsoon period.—On the mean of the period there was an appreciable excess of cloudiness in the Punjab, the North-West Frontier Province and Central India, and a defect in Assam, Bengal, the United Provinces, Rajputana and Hyderabad, but elsewhere in the plains the state of the skies was very nearly normal.

TABLE 74.

Division.	Departure of mean 8 hrs. cloud amount from normal.				
	June.	July.	August.	September.	Period, June to September.
Burma	+0·4	+0·3	+0·1	—0·7	0
Assam	—3·2	—2·5	—2·1	—3·4	—2·8
Bengal	—1·2	+0·1	+0·2	—1·5	—0·7
Bihar and Orissa	—0·9	+0·7	—0·2	—0·1	—0·1
United Provinces	—1·4	+0·5	+0·5	—0·9	—0·6
Punjab	+0·3	+2·1	+0·8	+0·8	+0·6
North-West Frontier Province.	+0·2	+1·1	—0·1	+1·5	+0·7
Sind	0	+0·6	—1·8	—0·2	—0·3
Rajputana	—1·0	+0·8	—1·3	—0·6	—0·5
Bombay	—0·2	+0·7	0	+0·1	+0·1
Central India	—0	+1·9	+0·1	+0·4	+0·6
Central Provinces	—0·4	+0·8	+0·4	—0·3	—0·1
Hyderabad	—1·5	—0·2	—0·1	—1·3	—0·8
Mysore	—0·7	+0·3	—0·3	—0·3	—0·3
Madras	—0·4	+0·5	+0·1	—0·2	0

A reference to the corresponding rainfall data will show that the abnormalities of the two elements were fairly similar.

Skies were more cloudy than usual in Baluchistan, but in Persia the recorded quantity of cloud did not depart to any significant extent from the normal. In the Himalayas the distribution of cloud accorded well with that in the adjacent plains.

TABLE 75.

Station.	Departure of mean 8 hrs. cloud amount from normal.				
	June.	July.	August.	September.	Period, June to September.
Aden	+0·9	+1·2	+1·0	—0·4	+0·7
Baghdad	+0·2	0	—0·2	—0·1	0
Bushire	+0·4	—0·2	...	...	...
Tehran	0	—0·8	+0·6	—0·1	—0·1
Ispahan	+0·2	+0·1	—0·5	+0·3	0
Jask	+0·9	+0·7	0	+0·2	+0·5
Muscat	+0·7	+1·2	—0·6	+0·9	+0·5
Meshed	—0·7	—0·5	...	—0·6	...
Chaman	+0·8	+0·4	—0·5	+0·6	+0·3
Quetta	+1·4	+2·4	—0·9	+0·4	+0·8
Kabul	+1·4	—0·2	—0·1	+0·6	+0·4
Cherat	—1·0	+3·2	—0·6	+2·3	+1·0
Murree	+0·3	+2·5	—0·1	+2·4	+1·4
Gilgit	—0·5	0	—0·8	+0·5	—0·2
Kashgar	+1·3	+1·3	+0·3	+2·1	+1·3
Srinagar	+0·3	+0·6	—1·4	+0·9	+0·1
Simla	+0·5	0	—0·3	+0·2	+0·1
Leh	—1·4	+1·9	—1·0	+1·9	+0·3
Chakrata	+0·9	+3·1	+2·0	+0·5	+1·6
Darjiling	—1·0	—0·9	+0·5	—3·0	—1·1
Pachmarhi	—1·1	+1·2	+0·2	+0·1	+0·1
Mount Abu	+0·2	+0·6	+0·2	—0·3	+0·3

IV.—The retreating south-west monsoon period.—The sky was abnormally free from cloud in Bengal and Assam, but in other parts of the Indian plains the seasonal anomalies of cloud distribution were neither marked nor of any significance.

TABLE 76.

Division.	Departure of mean 8 hrs. cloud amount from normal.			
	October.	November.	December.	Period, October to December.
Burma	— 0·5	+ 0·8	+ 0·8	+ 0·4
Assam	— 2·3	— 1·2	+ 0·2	— 1·1
Bengal	— 2·0	— 0·9	+ 0·2	— 0·9
Bihar and Orissa	— 1·6	— 0·4	+ 0·4	— 0·5
United Provinces	— 0·3	— 0·3	— 0·9	— 0·5
Punjab	+ 1·6	+ 0·6	— 0·8	+ 0·5
North-West Frontier Province	+ 2·1	+ 0·3	— 1·1	+ 0·4
Sind	+ 1·0	+ 0·2	— 1·4	— 0·1
Rajputana	+ 0·2	+ 0·1	— 1·4	— 0·4
Bombay	+ 0·1	+ 0·7	+ 0·9	+ 0·6
Central India	— 0·2	+ 0·3	— 0·3	— 0·1
Central Provinces	— 1·1	+ 0·5	+ 0·7	0
Hyderabad	— 1·7	— 0·3	+ 1·1	— 0·3
Mysore	— 0·1	— 0·5	+ 0·2	— 0·1
Madras	— 0·1	+ 0·4	+ 0·4	+ 0·2

In the western Himalayas and the highlands to the west of the Indus the cloud proportion was markedly high in October and November and about normal or in defect in December. This is an indication that winter conditions, although early in setting in and strong initially, were in December less pronounced than usual.

TABLE 77.

Station.	Departure of mean 8 hrs. cloud amount from normal.			
	October.	November.	December.	Period, October to December.
Aden	+1·9	—0·9	—1·0	0
Bushire	+2·0	+1·6	+2·2	+1·9
Tehran	...	...	+0·4	...
Ispahan	+1·9	+0·8	—0·6	+0·7
Jask	+1·6	+0·4	—0·8	+0·4
Muscat	+0·9	+0·2	+1·2	+0·8
Meshed	+2·1	+1·3	+0·2	+1·2
Chaman	+1·4	+0·5	—1·7	+0·1
Quetta	+2·0	+1·4	—0·8	+0·9
Kabul	+1·1	+2·1	—0·6	+0·9
Cherat	+3·0	+2·3	—0·5	+1·6
Murree	+3·5	+1·7	—0·2	+1·7
Gilgit	+1·2	+3·1	—1·5	+0·9
Kashgar	—2·5	0	+1·7	—0·3
Srinagar	+3·4	+3·5	—0·3	+2·2
Simla	+1·8	+2·0	—1·0	+0·9
Leh	+3·0	+0·5	+0·6	+1·4
Chakrata	+1·0	...	...	...
Darjiling	—1·7	+1·4	+0·1	—0·1
Pachmarhi	—2·6	—1·1	—0·5	—1·4
Mount Abu	—0·1	—0·5	—0·8	—0·5

The year.—On the general average of all the recording stations in the plains skies were appreciably more clouded than usual in the first two months of the year and also in July, and were unusually free from cloud in June and again from August to October. Both these features were common to nearly the whole country.

The general anomalies of cloud followed those of rainfall in seven of the twelve months and those of absolute humidity in eight.

TABLE 78.

	Departure from normal of Indian area.												
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Cloud amount at 8 hours	+0·6	+0·6	—0·2	—0·1	+0·3	—0·6	+0·6	—0·4	—0·4	—0·4	+0·2	+0·1	0
Vapour pressure at 8 hours	—·016	—·016	—·024	—·025	—·005	—·003	+·022	—·007	+·013	—·011	+·030	+·001	—·003
Rainfall (percentage departure)	—80	+19	—15	+23	+13	+2	+27	—3	+7	—24	—14	+58	+7

Snowfall.

(A).—The cold weather of 1913-14 and the succeeding hot weather :—

(*a*) No information is available regarding the snowfall in Central Asia.

(*b*) In the western half of Persia heavy snow appears to have fallen in the earlier part of the winter. In north-east Persia as represented by Meshed the snowfall, although it continued rather late, was on the whole not so heavy as usual.

(*c*) In Baluchistan the precipitation was heavier than usual in November, February and April, below the average in December and March, and nearly normal in May.

(*d*) In Kabul the precipitation was apparently in defect in November, December, January and March and well above the normal in February and April.

(*e*) The snowfall in the mountains of the North-West Frontier Province was probably either normal or in defect except in February when it was markedly in excess.

(*f*) In Kashmir the precipitation was on the whole distinctly in excess in November and February, and below the normal during the rest of the winter, but particularly from March to May. By the beginning of June the snowline on the mountains surrounding Leh had retreated to an altitude of about 15,000 feet, and most of the passes had opened for traffic.

(*g*) In the Punjab Himalayas the winter began early in November and did not terminate until about the middle of May. The snowfall was greater than usual in November, December, February, May and perhaps also in April, and in defect in January and March. In February snow fell to unprecedentedly low levels in some parts of the Rawalpindi district.

On May 11th snow is reported to have fallen down to a level of about 7,000 feet in the interior of the Simla hills, to about 8,000 feet in the Kulu hills and to 9,000 feet in Chamba. On the snowy ranges to the north-east of Simla the accumulations appeared to be somewhat greater than at the corresponding dates in 1913 and 1912, but they were clearly less than in 1911.

(*h*) In the Kumaon hills there was an excess in November and February, but in the rest of the period the fall was either about normal or in defect.

(*i*) In the eastern Himalayas, according to the scanty information available, the snowfall of the winter season was either up to the average or in very slight excess. Heavy snow is said to have fallen in the second part of April on the Jalap La Pass.

Summary.—On the whole it may be said that the snowfall was unusually prolonged and heavy in the Punjab Himalayas, but that over the rest of the mountain zone bordering upper India the winter, although protracted beyond its normal date, was not severe.

The accumulations existing at the end of May were probably in slight defect in the North-West Frontier Province and Kashmir, roughly normal in Baluchistan, Afghanistan and the United Provinces, in slight excess in north-east India, and in very large excess in the Punjab.

(B).—The south-west monsoon period June to September :—

During June there was no widespread snowfall and the previous accumulations were melting fast. In the Punjab hills the unmelted residue of the accumulations was however unusually deep for the time of year in consequence mainly of the heavy fall of April and May.

In July no widespread heavy snowfall occurred, and the unmelted residue of the winter accumulations existing at the end of the month was on the whole of less than the average depth, except locally in the Punjab Himalayas where it was greater than usual, owing to the heavy fall of April and May.

During August there was no heavy or general snowfall and the snowfall conditions of the month were therefore by no means abnormal in character.

In September moderately heavy snow fell in the Almora hills and there were a few light local falls in Kashmir and the Punjab Himalayas.

(C).—The period October to December :—

In the hill districts bordering upper India, snowfall began earlier than usual in October, and was on the whole above the average, more especially in Afghanistan.

November also was a month of heavy snowfall, particularly in Afghanistan.

The snowfall of December was either normal or in excess in the hills of the Punjab, Kashmir and the North-West Frontier Province as well as in Afghanistan, and was less than usual in Baluchistan and the Kumaon Himalayas.

Rainfall.

The rainfall data of India are now issued annually in a separate volume entitled "Rainfall of India." The twenty-fourth volume, that of 1914, contains the whole rainfall data of 2,859 stations which are there classified under their

respective administrative divisions according to the following scheme :—

Province.	Number of stations.
Burma	213
Assam	126
Bengal	226
Bihar and Orissa	290
United Provinces of Agra and Oudh	276
Punjab	189
Kashmir	38
North-West Frontier Province	34
Baluchistan	94
Rajputana	186
Bombay	289
Central India	117
Central Provinces	177
Hyderabad	22
Mysore	77
Coorg	10
Madras (including Pudukkottai, Travancore and Cochin)	495
Total	2,859

The information includes monthly statements of—

(*a*) the actual rainfall, day by day, of all the rainfall stations;

(*b*) the total rainfall of the month;

(*c*) the number of rainy days during the month;

(*d*) the average or normal rainfall of the month of all stations for which rainfall data of at least five years are available;

(*e*) the average or normal number of rainy days of the month for all stations for which rainfall data of five years or upwards are available.

Symon's rain-gauges are now used at all rain-gauge stations with the exception of those in Mysore. The time of measuring rainfall is 8 hrs. by local time throughout India, and the amounts registered give the rainfall of the previous 24 hours, and hence generally of the previous civil day.

The tables 79 to 81 give summaries of the rainfall data of the year. The first and second tables give average rainfall data based on the returns of over 2,000 rain-gauge stations for the 15 chief political divisions and the 33 sub-divisions respectively, while the third table (Table 81) contains data of the number of rainy days for the 33 sub-divisions for the four seasons into which the year has been divided.

The normals employed in this section are based on all the available records ending in 1910 and are given in Parts I and II of Volume XXII of Memoirs of the Indian Meteorological Department.

TABLE 79.—*Average over the 15 chief political divisions, of the actual and normal rainfall for the four seasons of the year 1914, and for the whole year.*

Division.	January and February.				March to May.				June to September.				October to December.				Whole year.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"		"	"	"		"	"	"		"	"	"		"	"	"	
Burma	0·14	0·30	−0·16	− 53	9·20	10·49	−1·29	− 12	65·77	58·59	+7·18	+ 12	10·33	8·85	+1·48	+ 17	85·44	78·24	+7·20	+ 9
Assam	3·48	2·02	+1·46	+ 72	22·50	25·13	−2·63	− 10	57·36	64·84	−7·48	− 12	3·69	6·38	−2·69	− 42	87·03	98·37	−11·34	− 12
Bengal	2·13	1·36	+0·77	+ 57	16·66	12·47	+4·19	+ 34	48·13	55·75	−7·62	− 14	2·87	5·34	−2·47	− 54	69·39	74·92	−5·53	− 7
Bihar and Orissa	0·96	1·67	−0·61	− 39	7·19	4·00	+3·19	+ 80	39·68	42·57	−2·89	− 7	0·72	3·20	−2·48	− 78	48·55	51·44	−2·89	− 6
United Provinces	0·63	1·53	−0·90	− 59	3·07	1·24	+1·83	+148	34·78	33·76	+1·02	+ 3	0·47	1·88	−1·41	− 75	38·94	38·40	+0·54	+ 1
Punjab	1·97	1·99	−0·02	− 1	3·18	1·77	+1·41	+ 80	21·29	15·37	+5·92	+ 39	2·17	0·73	+1·44	+197	28·61	19·86	+8·75	+ 44
North-West Frontier Province	3·95	2·88	+1·07	+ 37	6·38	4·45	+1·93	+ 43	14·07	8·63	+5·44	+ 63	5·90	1·17	+4·73	+404	30·30	17·13	+13·17	+ 77
Sind	0·80	0·59	+0·21	+ 36	0·30	0·41	−0·11	− 27	4·76	5·29	−0·53	− 10	0·24	0·16	+0·08	+ 50	6·10	6·45	−0·35	− 5
Rajputana	0·08	0·62	−0·54	− 87	0·51	0·71	−0·20	− 28	20·97	19·51	+1·46	+ 7	0·59	0·60	−0·07	− 11	22·15	21·50	+0·65	+ 3
Bombay	0·06	0·17	−0·11	− 65	0·80	1·46	−0·66	− 45	54·10	40·65	+13·45	+ 33	2·06	3·22	−1·16	− 36	57·02	45·60	+11·53	+ 25
Central India	0·09	0·87	−0·78	− 90	1·63	0·54	+0·99	+185	24·67	23·27	+1·40	+ 6	0·41	1·29	−0·88	− 68	26·80	26·07	+0·73	+ 2
Central Provinces	0·42	0·95	−0·53	− 56	3·11	1·46	+1·65	+113	42·93	39·48	+3·45	+ 9	0·76	2·36	−1·60	− 68	47·22	44·25	+2·97	+ 7
Hyderabad	0·09	0·33	−0·24	− 73	1·24	1·84	−0·60	− 33	37·83	26·16	+11·67	+ 45	1·39	3·68	−2·29	− 64	40·55	32·19	+8·36	+ 26
Mysore	0·03	0·22	−0·19	− 86	3·25	5·47	−2·22	− 41	22·48	22·27	+0·21	+ 1	8·12	8·07	+0·05	+ 1	33·88	36·03	−2·15	− 6
Madras	0·24	1·01	−0·77	− 76	4·30	4·63	−0·33	− 7	27·31	24·11	+3·20	+ 13	14·31	13·72	+0·59	+ 4	46·16	43·47	+2·69	+ 6
Mean of India	0·71	0·98	−0·27	− 28	4·93	4·41	+0·52	+ 12	38·22	34·82	+3·40	+ 10	3·77	4·31	−0·54	− 13	47·63	44·52	+3·11	+ 7

TABLE 80.—*Average over the 33 sub-divisions of the actual and normal rainfall for the four seasons of the year 1914, and for the whole year.*

SUB-DIVISION.	JANUARY AND FEBRUARY.				MARCH TO MAY.				JUNE TO SEPTEMBER.				OCTOBER TO DECEMBER.				WHOLE YEAR.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"		"	"	"		"	"	"		"	"	"		"	"	"	
1. Bay Islands	0	1·24	—1·24	—100	9·80	15·38	—5·58	—36	64·96	61·44	+3·52	+6	18·13	20·73	—2·60	— 13	92·89	98·79	— 5·90	— 6
2. Lower Burma	0·11	0·37	—0·26	— 70	11·60	15·09	—3·49	—23	117·28	103·64	+13·64	+13	11·93	10·51	+1·42	+ 14	140·92	129·61	+11·31	+ 9
3. Upper Burma	0·16	0·27	—0·11	— 41	7·65	7·37	+0·28	+ 4	32·45	29·56	+ 2·89	+10	9·28	7·78	+1·50	+ 19	49·54	44·98	+ 4·56	+ 10
4. Assam	3·48	2·02	+1·46	+ 72	22·50	25·13	—2·63	—10	57·36	64·84	— 7·48	—12	3·69	6·33	—2·69	— 42	87·03	98·27	—11·24	— 12
5. Bengal	2·13	1·36	+0·77	+ 57	16·63	12·47	+4·19	+34	48·13	55·75	— 7·62	—14	2·47	5·34	—2·87	— 54	69·39	74·92	— 5·53	— 7
6. Orissa	1·34	1·42	—0·08	— 6	10·34	5·65	+4·69	+83	49·19	44·02	+ 5·17	+12	0·93	5·41	—4·48	— 83	61·80	55·50	+ 6·30	+ 7
7. Chota Nagpur	0·85	2·29	—1·44	— 63	6·91	3·62	+3·29	+91	34·26	43·73	— 9·47	—22	1·09	2·51	—1·42	— 57	43·11	52·15	— 9·04	— 17
8. Bihar	0·84	1·32	—0·48	— 36	5·56	3·38	+2·18	+64	37·48	41·25	— 3·77	— 9	0·42	2·63	—2·21	— 84	44·30	48·56	— 4·26	— 9
9. United Provinces, East	0·39	1·24	—0·85	— 69	2·93	1·12	+1·81	+163	34·33	34·46	— 0·13	0	0·17	2·31	—2·14	— 93	38·02	39·13	— 1·11	— 3
10. Ditto, West	0·63	1·85	—1·22	— 66	3·24	1·37	+1·87	+136	35·21	33·00	+ 2·21	+ 7	0·81	1·39	—0·58	— 42	39·89	37·61	+ 2·28	+ 6
11. Punjab, East and North	1·97	2·30	—0·33	— 14	3·39	1·90	+1·49	+ 78	24·21	18·27	+ 5·94	+33	2·32	0·85	+1·47	+173	31·89	23·33	+ 8·57	+ 37
12. Do., South-west	1·99	1·06	+0·93	+ 88	2·54	1·37	+1·17	+ 85	12·43	6·53	+ 5·90	+90	1·71	0·35	+1·36	+389	18·67	9·31	+ 9·36	+101
13. Kashmir	7·93	7·09	+0·84	+ 12	11·35	9·09	+2·26	+ 25	27·63	22·19	+ 5·44	+25	9·54	2·89	+6·65	+230	56·45	41·26	+15·19	+ 37
14. North-West Frontier Province	3·95	2·88	+1·07	+ 37	6·38	4·45	+1·93	+ 44	14·07	8·63	+ 5·44	+63	5·90	1·17	+4·73	+404	30·30	17·13	+13·17	+ 77
15. Baluchistan	4·61	2·73	+1·89	+ 69	1·53	2·03	—0·50	— 25	4·45	1·91	+ 2·54	+133	4·02	1·04	+2·98	+287	14·61	7·70	+ 6·91	+ 90
16. Sind	0·30	0·59	+0·21	+ 36	0·30	0·41	—0·11	— 24	4·76	5·29	— 0·53	—10	0·24	0·16	+0·08	+ 50	6·10	6·45	— 0·35	— 5
17. Rajputana, West	0·16	0·48	—0·32	— 67	0·45	0·56	—0·11	— 20	11·55	11·74	— 0·19	— 2	0·38	0·26	+0·12	+ 46	12·54	13·04	— 0·50	— 4
18. Do., East	0·03	0·68	—0·65	— 96	0·52	0·78	—0·26	— 33	25·33	22·91	+ 2·23	+10	0·68	0·83	—0·15	— 18	26·36	25·20	+ 1·16	+ 4
19. Gujarat	0·15	0·16	+0·01	— 6	0·28	0·24	+0·04	+ 17	38·69	31·48	+ 7·21	+23	0·61	0·83	—0·22	— 27	39·73	32·74	+ 7·99	+ 24
20. Central India, West	0·05	0·59	—0·54	— 92	0·86	0·48	+0·38	+ 79	31·32	31·50	— 0·18	— 1	0·71	1·01	—0·30	— 30	32·94	33·58	— 0·64	— 2
21. Ditto East	0·24	1·16	—0·92	— 79	2·40	0·79	+1·61	+204	38·02	35·05	+ 2·97	+ 8	0·11	1·58	—1·47	— 93	40·77	38·58	+ 2·19	+ 6
22. Berar	0·55	0·61	—0·06	— 10	1·60	0·95	+0·65	+ 68	37·41	28·17	+ 9·24	+33	1·19	2·46	—1·27	— 52	40·75	32·19	+ 8·56	+ 27
23. Central Provinces, West	0·33	1·05	—0·72	— 69	3·23	1·14	+2·09	+183	39·74	40·97	— 1·23	— 3	0·85	2·16	—1·31	— 61	44·15	45·32	— 1·17	— 3
24. Ditto, East	0·40	1·12	—0·72	— 64	4·11	2·10	+2·01	+ 96	49·68	46·36	+ 3·32	+ 7	0·36	2·46	—2·10	— 85	54·55	52·04	+ 2·51	+ 5
25. Konkan	0·03	0·13	—0·10	— 77	0·43	1·86	—1·43	— 77	134·51	102·28	+32·23	+32	2·23	4·90	—2·67	— 54	137·20	109·17	+28·03	+ 26
26. Bombay Deccan	0·02	0·20	—0·18	— 90	1·29	2·13	—0·84	— 39	35·12	24·40	+10·72	+44	2·95	4·15	—1·20	— 29	39·38	30·88	+ 8·50	+ 28
27. Hyderabad, North	0·20	0·29	—0·09	— 31	0·59	1·53	—0·94	— 61	40·23	29·50	+10·73	+36	1·68	3·58	—1·90	— 53	42·70	34·90	+ 7·80	+ 22
28. Do., South	0	0·36	—0·36	—100	1·78	2·10	—0·32	— 15	35·80	23·38	+12·42	+53	1·13	4·09	—2·96	— 72	38·71	30·03	+ 8·78	+ 29
29. Mysore	0·03	0·22	—0·19	— 86	3·25	5·47	—2·22	— 41	22·48	22·37	+ 0·31	+ 1	8·12	8·07	+0·05	+ 1	33·88	36·03	— 2·15	— 6
30. Malabar	0	0·59	—0·59	—100	3·73	10·65	—6·92	— 65	110·27	102·29	+ 7·98	+ 8	20·04	13·06	+6·98	+ 44	134·04	127·49	+ 6·55	+ 5
31. Madras, South-west	0·34	1·43	—1·09	— 76	3·40	4·71	—1·22	— 26	11·24	11·68	— 0·44	— 4	22·86	17·23	+5·58	+ 32	37·93	35·10	+ 2·83	+ 8
32. Do. Deccan	0	0·26	—0·26	—100	2·36	2·45	—0·09	— 4	16·66	15·00	+ 1·66	+11	2·90	6·99	—3·99	— 56	21·92	24·30	— 2·38	— 10
33. Do. Coast, North	0·25	0·74	—0·49	— 66	6·62	3·52	+3·10	+88	33·23	24·71	+ 8·52	+34	2·02	10·61	—7·69	— 72	43·02	39·58	+ 3·44	+ 9

TABLE 81.—*Average over the 33 sub-divisions of the actual and normal number of rainy days for the four seasons of the year 1914, and for the whole year.*

SUB-DIVISION.	JANUARY AND FEBRUARY.			MARCH TO MAY.			JUNE TO SEPTEMBER.			OCTOBER TO DECEMBER.			WHOLE YEAR.		
	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.
1. Bay Islands	0	2·0	—2·0	15·0	17·5	—2·5	78·5	74·3	+4·3	27·0	26·7	+0·3	120·5	120·4	+0·1
2. Lower Burma	0·1	0·6	—0·5	14·6	15·7	—1·1	90·0	91·0	—1·0	13·7	14·3	—0·6	118·4	121·6	—3·2
3. Upper Burma	0·4	0·7	—0·3	11·6	11·0	+0·6	43·7	42·2	+1·5	11·2	11·2	0	66·9	65·1	+1·8
4. Assam	5·2	5·0	+0·2	29·1	32·7	—3·6	61·0	68·1	—7·1	6·6	8·7	—2·1	101·9	114·5	—12·6
5. Bengal	2·7	2·5	+0·2	18·3	15·7	+2·6	56·0	59·9	—3·9	3·3	6·1	—2·8	80·3	84·2	—3·9
6. Orissa	2·0	2·4	—0·4	13·4	9·2	+4·2	61·6	53·7	+7·9	1·9	6·8	—4·9	78·9	72·1	+6·8
7. Chota Nagpur	1·7	4·3	—2·6	10·0	7·0	+3·0	40·0	53·2	—4·2	2·3	3·8	—1·5	53·0	58·3	—5·3
8. Bihar	1·9	2·8	—0·9	7·8	5·5	+2·2	40·1	45·7	—5·6	0·8	3·1	—2·3	50·6	57·1	—6·5
9. United Provinces, East	1·9	2·8	—0·9	5·8	2·4	+3·4	35·9	37·7	—1·8	0·4	2·4	—2·0	44·0	45·3	—1·3
10. Ditto, West	1·5	3·7	—2·2	6·4	3·1	+3·3	35·6	33·9	+1·7	2·6	4·1	—1·5	46·1	44·8	+1·3
11. Punjab, East and North	1·6	4·3	—2·7	6·4	4·3	+2·1	24·3	19·7	+4·6	5·3	1·5	+3·8	37·6	29·8	+7·8
12. Punjab, South-west	4·0	2·6	+1·4	5·9	3·4	+2·5	13·5	8·7	+4·8	4·2	0·8	+3·4	27·6	15·5	+12·1
13. Kashmir	12·0	9·9	+2·1	16·1	14·6	+1·5	25·9	24·1	+1·8	14·4	4·5	+9·9	68·4	53·1	+15·3
14. North-West Frontier Province,	6·8	5·6	+1·2	12·3	8·9	+3·4	16·4	13·2	+4·2	9·4	2·1	+7·3	44·9	28·8	+16·1
15. Baluchistan	7·4	6·0	+1·4	4·6	5·3	—0·7	6·8	3·3	+3·5	8·4	2·6	+5·8	27·2	17·2	+10·0
16. Sind	1·3	1·6	—0·3	0·5	1·0	—0·5	7·3	6·1	+1·2	0·7	0·3	+0·4	9·8	9·0	+0·8
17. Rajputana, West	0·5	1·1	—0·6	0·8	1·5	—0·7	16·2	14·8	+1·4	1·0	0·5	+0·5	18·5	17·9	+0·6
18. Ditto, East	0·1	1·7	—1·6	1·3	1·9	—0·6	30·6	27·8	+2·8	1·6	1·3	+0·3	33·6	33·7	+0·9
19. Gujarat	0·3	0·4	—0·1	0·4	0·5	—0·1	43·7	34·8	+8·9	1·2	1·3	—0·1	45·6	37·0	+8·6
20. Central India, West	0·2	1·4	—1·2	1·8	1·3	+0·5	41·5	37·9	+3·6	1·4	1·7	—0·3	44·9	42·3	+2·6
21. Ditto, East	1·3	2·4	—1·1	4·9	1·9	+3·0	43·3	37·2	+6·1	0·3	2·1	—1·8	49·8	43·6	+6·2
22. Berar	1·3	1·2	+0·1	4·6	2·3	+2·3	47·9	38·7	+9·2	2·8	3·6	—0·8	56·6	45·8	+10·8
23. Central Provinces, West	0·7	2·2	—1·5	3·7	2·6	+1·1	51·2	47·2	+4·0	2·0	3·2	—1·2	57·6	55·2	+2·4
24. Ditto, East	1·0	2·1	—1·1	9·3	4·3	+5·0	56·2	51·1	+5·1	1·2	3·6	—2·4	67·7	61·1	+6·6
25. Konkan	0·1	0·3	—0·2	0·9	2·5	—1·6	94·0	82·5	+9·5	4·0	7·0	—3·0	99·0	94·3	+4·7
26. Bombay Deccan	0·1	0·5	—0·4	2·6	4·0	—1·4	43·7	37·4	+6·3	4·7	6·3	—1·6	51·1	48·2	+2·9
27. Hyderabad, North	0·4	0·7	—0·3	1·8	3·4	—1·6	48·1	41·0	+7·1	2·9	5·2	—2·3	53·2	50·3	+2·9
28. Ditto, South	0	0·8	—0·8	3·6	4·4	—0·8	52·5	37·0	+15·5	2·5	6·5	—4·0	58·6	48·7	+9·9
29. Mysore	0·1	0·4	—0·3	5·6	9·0	—3·4	34·2	33·6	+0·6	12·0	12·1	—0·1	51·9	55·1	—3·2
30. Malabar	0	0·8	—0·8	7·5	13·0	—5·5	91·8	86·3	+5·5	23·1	18·0	+5·1	122·4	117·1	+5·3
31. Madras, South-east	0·9	2·0	—1·1	5·5	7·0	—1·5	18·2	18·2	0	27·7	20·8	+6·9	52·3	48·0	+4·3
32. Do. Deccan	0	0·2	—0·2	4·2	4·4	—0·2	31·6	25·2	+6·4	6·0	9·5	—3·5	41·8	39·3	+2·5
33. Do. Coast, North	0·4	0·8	—0·4	9·2	5·6	+3·6	44·7	35·3	+9·4	4·4	10·9	—6·5	58·7	53·6	+6·1

I.—The cold weather period.—About the usual number of disturbances occurred during January, but they were almost without exception of slight vitality and pursued an abnormally northerly course. The precipitation associated with them was accordingly light and was confined mainly to Baluchistan, the North-West Frontier Province, the Punjab and Kashmir. February on the other hand was characterised by an excess of precipitation over nearly the whole area from Baluchistan to Assam. Several depressions were recorded and two of these were of great vitality and gave rise to widespread rain in northern India.

(*a*) The combined rainfall of the two months in the plains of India fell short of the normal by nearly a fourth of an inch or 28 per cent; the deficit was however not entirely general, for Assam, Bengal, the Punjab Southwest, the North-West Frontier Province and Sind had appreciably more than their proper share. In the Bay Islands, Chota Nagpur, the United Provinces West and Madras Southeast the fall was in defect by more than an inch.

TABLE 82.

Sub-division.	Rainfall of period, January and February.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Bay Islands	0	1·24	—1·24	—100
Lower Burma	0·11	0·37	—0·26	—70
Upper Burma	0·16	0·27	—0·11	—41
Assam	3·48	2·02	+1·46	+72
Bengal	2·13	1·36	+0·77	+57
Orissa	1·34	1·42	—0·08	— 6
Chota Nagpur	0·85	2·29	—1·44	—63
Bihar	0·84	1·32	—0·48	—36
United Provinces, East	0·59	1·24	—0·65	—52
Ditto West	0·63	1·85	—1·22	—66
Punjab, East and North	1·97	2·30	—0·33	— 14
Punjab, South-west	1·99	1·06	+0·93	+88
North-West Frontier Province	3·95	2·88	+1·07	+37
Sind	0·80	0·59	+0·21	+36
Rajputana, West	0·16	0·46	—0·32	—67
Do East	0·03	0·68	—0·65	—96
Gujarat	0·15	0·16	—0·01	— 6
Central India, West	0·05	0·59	—0·54	—92
Ditto East	0·24	1·16	—0·92	—79
Berar	0·55	0·61	—0·06	—10
Central Provinces, West	0·33	1·05	—0·72	—69
Central Provinces, East	0·40	1·12	—0·72	—64
Konkan	0·03	0·13	—0·10	—77
Bombay Deccan	0·02	0·20	—0·18	—90
Hyderabad, North	0·20	0·29	—0·09	—31
Hyderabad, South	0	0·36	—0·36	—100
Mysore	0·03	0·22	—0·19	—86
Malabar	0	0·59	—0·59	—100
Madras, South-east	0·34	1·43	—1·09	—76
Madras Deccan	0	0·26	—0·26	—100
Madras Coast, North	0·25	0·74	—0·49	—66

TABLE 82—*concld.*

(*b*) In Kashmir there was an excess of 12 per cent. and in Baluchistan of 69 per cent. Further west in Persia the distribution was irregular; thus the aggregate of the season agreed with the normal at Busrah, was deficient at Meshed and Bushire and heavier than usual at Baghdad, Tehran, Ispahan and Jask.

TABLE 83.

Station or sub-division.	Rainfall of period, January and February.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	
Aden	0·02	0·61	—0·59	—97
Baghdad	3·27	2·41	+0·86	+36
Busrah	2·15	2·22	—0·07	— 3
Bushire	3·63	4·74	—1·11	—23
Tehran	3·57	2·73	+0·84	+31
Ispahán	1·90	1·07	+0·83	+78
Jask	3·08	1·65	+1·43	+87
Muscat	1·77	1·86	—0·09	— 5
Meshed	0·20	1·71	—1·51	—88
Kashmir	7·93	7·09	+0·84	+12
Baluchistan	4·61	2·72	+1·89	+69

(*c*) In sub-equatorial regions the rainfall was below the average in both January and February. At Mauritius the recorded quantity was on the whole up to the normal.

TABLE 84.

Station.	Departure from normal of rainfall in		
	January.	February.	Period, January and February.
	"	"	"
Zanzibar	−0·53	−2·36	−2·89
Seychelles	−2·10	−2·70	−4·80
Mauritius	−1·50	+1·46	−0·04

II.—The hot weather period.—Meteorologically this period was very abnormal. In March weather was even less disturbed than usual and there was accordingly a general deficiency of rainfall which was most marked in Lower Burma, Assam, Bengal, Orissa, Baluchistan and Malabar. In April, which ordinarily witnesses the establishment of the hot weather characteristics, no less than four disturbances of the cold weather type entered India from the west and two of these were productive of widespread rainfall in northern India. Over the Peninsula generally the weather was drier even than usual. In May although no cold weather disturbance was recorded the weather in northern India was nevertheless unusually disturbed and between the 7th and the 10th there occurred a burst of remarkably widespread rainfall. In the Peninsula, on the other hand, the usual thunderstorms were comparatively rare and the rainfall was in consequence deficient in most places.

Three disturbances were developed over the Bay, but in the Arabian Sea there was an entire absence of the usual temporary incursion of monsoon winds.

(*a*) The rainfall of the whole season, despite the scanty fall in March, was markedly above the normal in Bengal, Bihar and Orissa, the United Provinces, the Punjab, the North-West Frontier Province, Central India, the Central Provinces including Berar and the Madras Coast North, and about the average or in defect over the rest of the country.

In the region comprising the United Provinces, Central India East and the Central Provinces the quantity recorded during the period was at least double the normal fall. On the other hand the Konkan, Hyderabad North and Malabar received less than half the average amount.

TABLE 85.

Sub-division.	Rainfall of period, March to May.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Bay Islands	9·80	15·38	−5·58	−36
Lower Burma	11·80	15·09	−3·49	−23

TABLE 85—*concld.*

Sub-division.	Rainfall of period, March to May.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Upper Burma	7·65	7·37	+0·28	+4
Assam	22·50	25·13	−2·63	−10
Bengal	16·66	12·47	+4·19	+34
Orissa	10·34	5·65	+4·69	+83
Chota Nagpur	6·91	3·62	+3·29	+91
Bihar	5·56	3·38	+2·18	+64
United Provinces, East . . .	2·93	1·12	+1·81	+162
United Provinces, West . . .	3·24	1·37	+1·87	+136
Punjab, East and North . . .	3·39	1·90	+1·49	+78
Do., South-west . . .	2·54	1·37	+1·17	+85
North-West Frontier Province . .	6·38	4·45	+1·93	+44
Sind	0·30	0·41	−0·11	−24
Rajputana, West	0·45	0·56	−0·11	−20
Do., East	0·52	0·78	−0·26	−33
Gujarat	0·28	0·24	+0·04	+17
Central India, West . . .	0·86	0·48	+0·38	+79
Ditto, East . . .	2·40	0·79	+1·61	+204
Berar	1·60	0·95	+0·65	+68
Central Provinces, West . .	3·23	1·14	+2·09	+183
Ditto, East . . .	4·11	2·10	+2·01	+96
Konkan	0·43	1·86	−1·43	−77
Bombay Deccan	1·29	2·13	−0·84	−39
Hyderabad, North	0·59	1·53	−0·94	−61
Do., South	1·78	2·10	−0·32	−15
Mysore	3·25	5·47	−2·22	−41
Malabar	3·73	10·65	−6·92	−65
Madras, South-east . . .	3·49	4·71	−1·22	−26
Madras Deccan	2·36	2·45	−0·09	−4
Madras Coast, North . . .	6·62	3·52	+3·10	+88

(*b*) In Persia the rainfall although deficient on the whole was very irregularly distributed; in Baluchistan it was in defect by 25 per cent. and in Kashmir in excess by a similar amount.

TABLE 86.

STATION OR SUB-DIVISION.	RAINFALL OF PERIOD, MARCH TO MAY.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Aden	0·06	0·95	—0·89	—94
Baghdad	2·97	2·45	+0·52	+21
Busrah	1·65	2·03	—0·38	—19
Bushire	1·43	1·41	+0·02	+ 1
Tehran	2·38	3·51	—1·13	—32
Ispahan	2·08	1·91	+0·17	+ 9
Jask	0	0·83	—0·83	—100
Muscat	0·06	0·87	—0·81	—93
Meshed	4·95	5·46	—0·51	— 9
Kashmir	11·35	9·09	+2·26	+25
Baluchistan	1·53	2·03	—0·50	—25

(*c*) In the Indian Ocean a large excess occurred at Seychelles and a defect at Zanzibar and Mauritius.

TABLE 87.

STATION.	DEPARTURE FROM NORMAL OF RAINFALL IN			
	March.	April.	May.	Period, March to May.
	"	"	"	"
Zanzibar	+2·55	—1·16	—7·58	—6·19
Seychelles	+7·00	+5·23	+1·61	+13·84
Mauritius	—0·41	—2·20	—0·68	—3·29

III.—The south-west monsoon period.—The monsoon rains of 1914 were on the whole abundant, and in this respect contrasted favourably with those of 1913. The Arabian Sea current appeared on the west coast of the Peninsula on the 4th June, but did not penetrate freely inland until about the 23rd. In north-east India a strong burst of rainfall occurred about the middle of June, but it was not till the end of the month that the Bay current established itself there. The currents were very vigorous during nearly the whole of July and provided abundant rain. They were of normal strength in August, but were determined to an abnormal extent to Lower Burma, Bihar and the Peninsula to the detriment of the greater part of northern and central India. A pronounced break obtained in the region usually served by the Arabian Sea current from August 25th to September 3rd; but thereafter a great improvement occurred in the activity of the monsoon, and a cyclonic storm which travelled along a curved path across the north Madras coast to the Simla hills resulted in abundant rainfall over a large part of the country during the third week. The dissipation of the storm on the 19th September marked the termination of the rainy season of 1914 in the north-west; in ordinary years this occurs about the 15th. During the last ten days of September the monsoon was active chiefly in Burma, north-east India and the Peninsula, and the changes characteristic of the transition from the summer to the autumnal rains were in progress.

The total rainfall of the period June to September in the plains of India was in excess by 3·4″ or 10 per cent., but to this result July alone contributed nearly 3″. The local distribution was very satisfactory inasmuch as in 20 of the 33 rainfall divisions the recorded amounts were within 15 per cent. of the normal; in twelve they were in excess by more than 20 per cent., and only in one, *viz.*, Chota Nagpur, was there a defect of over 15 per cent. In the United Provinces, Rajputana and Central India East, where the monsoon rains of 1913 were largely deficient, the quantity received in the present monsoon season was within 10 per cent. of the normal.

TABLE 88.

SUB-DIVISION.	RAINFALL OF PERIOD, JUNE TO SEPTEMBER.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Bay Islands	64·96	61·44	+ 3·52	+ 6
Lower Burma	117·28	103·64	+ 13·64	+ 13
Upper Burma	32·45	29·56	+ 2·89	+ 10
Assam	57·36	64·84	— 7·48	— 12
Bengal	43·13	55·75	— 7·62	— 14
Orissa	49·19	44·02	+ 5·17	+ 12
Chota Nagpur	34·26	43·73	— 9·47	— 22
Bihar	37·48	41·25	— 3·77	— 9
United Provinces, East	34·33	34·46	— 0·13	0
Ditto, West	35·21	33·00	+ 2·21	+ 7
Punjab, East and North	34·21	13·27	+ 5·94	+ 38
Do., South-west	12·43	6·53	+ 5·90	+ 90
North-West Frontier Province.	14·07	8·63	+ 5·44	+ 63
Sind	4·76	5·29	— 0·53	— 10
Rajputana, West	11·55	11·74	— 0·19	— 2
Do., East	25·13	22·91	+ 2·22	+ 10
Gujarat	38·69	31·48	+ 7·21	+ 23
Central India, West	31·32	31·50	— 0·18	— 1
Ditto, East	38·02	35·05	+ 2·97	+ 8
Berar	37·41	28·17	+ 9·24	+ 33
Central Provinces, West	39·74	40·97	— 1·23	— 3
Ditto, East	49·68	46·36	+ 3·32	+ 7

TABLE 88—*concld.*

SUB-DIVISION.	RAINFALL OF PERIOD, JUNE TO SEPTEMBER.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Konkan	134·51	102·28	+ 32·23	+ 32
Bombay Deccan	35·12	24·40	+ 10·72	+ 44
Hyderabad, North	40·23	29·50	+ 10·73	+ 36
Ditto, South	35·80	28·38	+ 12·42	+ 53
Mysore	22·48	22·27	+ 0·21	+ 1
Malabar	110·27	102·29	+ 7·98	+ 8
Madras, South-east	11·24	11·68	— 0·44	— 4
Madras Deccan	16·66	15·00	+ 1·66	+ 11
Madras Coast, North	33·23	24·71	+ 8·52	+ 34

In the equatorial belt as represented by Zanzibar and Seychelles the rainfall although irregularly distributed was on the whole about the average. At Mauritius the seasonal aggregate was in excess owing mainly to heavy fall in June.

TABLE 89.

STATION.	DEPARTURE FROM NORMAL OF RAINFALL IN				
	June.	July.	August.	September.	Period, June to September.
	"	"	"	"	"
Zanzibar	—0·91	—2·56	+1·93	—1·06	—2·60
Seychelles	—0·59	—1·29	—1·83	+6·11	—2·40
Mauritius	+2·85	+0·07	—0·51	—0·32	+2·09

Rainfall was well above normal in Kashmir, Baluchistan, east Persia and Arabia, but in north and west Persia the weather was drier even than usual.

TABLE 90.

STATION OR SUB-DIVISION.	RAINFALL OF PERIOD, JUNE TO SEPTEMBER.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Aden	1·36	0·37	+0·99	+268
Baghdad	0	0·05	—0·05	—100
Busrah	0	0·19	—0·19	—100
Bushire	0	0·01	—0·01	—100
Tehran	0	0·43	—0·43	—100

TABLE 90—*concld.*

STATION OR SUB-DIVISION.	RAINFALL OF PERIOD, JUNE TO SEPTEMBER.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Ispahan	0·28	0·09	+0·20	+250
Jask	0·81	0·06	+0·75	+1250
Muscat	0·53	0·17	+0·36	+212
Meshed	0·02	0·45	—0·43	—96
Kabul	0·15	0·55	—0·40	—73
Kashmir	27·63	23·19	+4·44	+25
Baluchistan	4·45	1·91	+2·54	+133

IV.—The retreating south-west monsoon period.—In October the monsoon was very weak and its activity was shown mainly in Burma and the south of the Peninsula. In the central parts of the country, the north of the Peninsula and the greater part of north-east India, where moderate to heavy rainfall occurs under ordinary conditions, weather was practically dry. In north-west India on the other hand the weather was disturbed during the greater part of the month owing to an early setting in of winter actions. The first well-formed winter storm of the season affected the north-west frontier as early as the 27th of October, and was the cause of wide-spread and locally heavy precipitation.

November also was characterized by an extreme weakness of the monsoon in Madras and the frequent occurrence of disturbed weather in north-west India.

The abnormal conditions presaging an early and severe winter, which had characterized October and November, did not persist through December. In the extreme north weather was disturbed during the first five days and again near the end of the month, but there is no evidence of any well-formed cold weather disturbance having crossed into north-west India from the highlands to the west of the Indus. On the other hand conditions were much more disturbed than usual over the Bay of Bengal where a cyclonic storm of a somewhat peculiar character occurred during the third week of the month. A remarkable burst of rain occurred in connection with this storm in Burma and lower Bengal at the end of the third week.

(*a*) The total rainfall of the period was well above the normal in the North-West Frontier Province, the Panjab, Malabar, Madras South-east and Burma, the excess averaging nearly 5″ in the North-West Frontier Province, 6″ in Malabar and Madras South-east. Over the rest of the plains the seasonal fall was either normal in amount or in defect, the deficit being greatest in absolute amount in the Madras Coast North (nearly 8″), and by percentage comparison with the normal in the region comprising the United Provinces East, Bihar, Orissa, Central India East and the Central Provinces East, where scarcely any rain fell during the period.

TABLE 91.

Sub-division.	Rainfall of period, October to December.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Bay Islands	18·13	20·73	—2·60	—13
Lower Burma	11·93	10·51	+1·42	+14
Upper Burma	9·28	7·78	+1·50	+19
Assam	3·69	6·38	—2·69	—42
Bengal	2·47	5·34	—2·87	—54
Orissa	0·93	5·41	—4·48	—83
Chota Nagpur	1·09	2·51	—1·42	—57
Bihar	0·42	2·63	—2·21	—84
United Provinces, East	0·17	2·81	—2·14	—93
Ditto, West	0·81	1·39	—0·58	—42
Punjab, East and North	2·32	0·85	+1·47	+173
Do., South-west	1·71	0·35	+1·36	+389
North-West Frontier Province.	5·90	1·17	+4·73	+404
Sind	0·24	0·16	+0·08	+50
Rajputana, West	0·38	0·26	+0·12	+46
Do., East	0·68	0·83	—0·15	—18
Gujarat	0·61	0·83	—0·22	—27
Central India, West	0·71	1·01	—0·30	—30
Do., East	0·11	1·58	—1·47	—93
Berar	1·19	2·46	—1·27	—52
Central Provinces, West	0·85	2·16	—1·31	—61
Ditto, East	0·36	2·46	—2·10	—85
Konkan	2·23	4·90	—2·67	—54
Bombay Deccan	2·95	4·15	—1·20	—29
Hyderabad, North	1·68	3·58	—1·90	—53
Do., South	1·13	4·09	—2·96	—72
Mysore	8·12	8·07	+0·05	+1
Malabar	20·04	13·96	+6·08	+44
Madras, South-east	22·86	17·28	+5·58	+32
Madras Deccan	2·90	8·59	—3·69	—56
Madras Coast, North	2·92	10·61	—7·69	—72

(*b*) Precipitation was as largely in excess in Kashmir and Baluchistan as in the plains of upper India. Arabia and Afghanistan also participated in the excess, but over the greater part of Persia, there was a slight defect owing chiefly to the scanty fall in December.

TABLE 92.

Station or Sub-division.	Rainfall of period, October to December.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Aden	0·95	0·31	+0·64	+206
Bushire	4·46	4·91	—0·45	— 9
Ispahan	1·22	1·68	—0·46	— 27
Jask	0·95	1·63	—0·68	— 42
Muscat	3·21	1·04	+2·17	+209
Meshed	2·33	1·75	+0·58	+ 33
Kabul	9·02	1·55	+7·47	+482
Kashmir	9·54	2·89	+6·65	+230
Baluchistan	4·02	1·04	+2·98	+287

At the stations in the Indian Ocean the rainfall although below the normal for the whole season was largely in excess at Seychelles during October.

TABLE 93.

Station.	Departure from normal of rainfall in			
	October.	November.	December.	Period, October to December.
	"	"	"	"
Zanzibar	—2·78	—4·32	—1·17	—8·27
Seychelles	+6·08	—2·33	—6·48	—2·73
Mauritius	—0·87	—0·84	—2·99	—4·70

The year.—On the general average of all the rainfall recording stations in the plains of India 1914 is with the possible exception of 1910, the wettest year on record since 1894 and yet the winter and autumn seasons were drier than usual. The excess was, however, due almost entirely to the unusually heavy fall in July which had 2·97″ more than its normal quantity.

TABLE 94.

Period.	Rainfall of India (when the size of areas is taken into account) in 1914.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Cold weather	0·71	0·98	—0·27	—28
Hot do.	4·93	4·41	+0·52	+12
South-west monsoon	38·22	34·82	+3·40	+10
Retreating south-west monsoon.	3·77	4·31	—0·54	—13
Whole year	47·63	44·52	+3·11	+ 7

There were only four areas of deficient rainfall, namely, the Bay Islands; Assam, Bengal, Bihar, Chota Nagpur and the United Provinces East; Sind Rajputana West, Central India West and Central Provinces West; and Mysore and the Madras Deccan: the deficiency was however small, being less than 13 per cent. in amount except in the case of Chota Nagpur (17 per cent.). All the other parts of the country had more than an average fall.

The largest proportional excess occurred in the Punjab and the North-West Frontier Province, thus affording another illustration of the principle noted in the Anuual Report of 1910 "that in years of strongly marked monsoon conditions the dry tract of north-west India tends to receive *in proportion to the normal*, more rain than other parts of the country."

TABLE 95.

Sub-division.	Whole year.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Bay Islands	92·89	98·79	—5·90	— 6
Lower Burma	140·92	129·61	+11·31	+ 9
Upper Burma	49·54	44·98	+4·56	+10
Assam	87·03	98·37	—11·34	—12
Bengal	69·39	74·92	—5·53	— 7
Orissa	61·80	56·50	+5·30	+ 7
Chota Nagpur	43·11	52·15	—9·04	—17
Bihar	44·30	48·58	—4·28	— 9
United Provinces, East	38·02	39·13	—1·11	— 3
Ditto, West.	39·89	37·61	+2·28	+ 6
Punjab, East and North	31·89	23·32	+8·57	+37
Do. South-west	18·67	9·31	+9·36	+101
North-West Frontier Province.	30·30	17·13	+13·17	+77
Sind	6·10	6·45	—0·35	— 5
Rajputana, West	12·54	13·04	—0·50	— 4
Do. East	26·36	25·20	+1·16	+ 4

TABLE 95—*concld.*

Sub-division.	Whole year.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Gujarat	39·73	32·71	+7·02	+21
Central India, West	32·94	33·58	—0·64	— 2
Ditto, East	40·77	38·58	+2·19	+ 6
Berar	40·75	32·19	+8·56	+27
Central Provinces, West	44·15	45·32	—1·17	— 3
Ditto, East	54·55	52·04	+2·51	+ 5
Konkan	137·20	109·17	+28·03	+26
Bombay Deccan	39·38	30·88	+8·50	+28
Hyderabad, North	42·70	34·90	+7·80	+22
Do., South	38·71	29·93	+8·78	+29
Mysore	33·88	36·03	—2·15	— 6
Malabar	134·04	127·49	+6·55	+ 5
Madras, South-east	37·93	35·10	+2·83	+ 8
Do. Deccan	21·92	24·30	—2·38	—10
Do. Coast, North	43·02	39·58	+3·44	+ 9

The excess in India accompanied a deficit in the Indian Ocean.

TABLE 96.

Station.	Annual rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Zanzibar	43·35	63·30	—19·95	—32
Seychelles	105·99	97·28	+8·71	+ 9
Mauritius	43·09	49·03	—5·94	—12

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Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 15 stations in India, etc., in the year 1914.

TABLE

Abstract of observations taken at 10 hrs. and 16 hrs.

Number of sub-division.	Station.	Elevation of barometer above sea-level, in feet.	Pressure.						Temperature of air.									
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal	Mean reduced to sea-level and gravity, 45° Lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	III.—Bengal.																	
5	Calcutta	21	29·865	29·750	·115	29·806	+·018	29·774	87·3	71·0	16·3	100·1	51·1	49·0	81·3	84·8	78·6	+0·6
	V.—United Provinces of Agra and Oudh.																	
9	Allahabad *	300	29·500	29·385	·115	29·439	—·037	29·398	93·0	69·2	23·8	115·6	49·5	72·1	84·3	91·1	80·3	+3·9
	VI.—Punjab.																	
11	Lahore	702	29·147	29·060	·087	29·096	+·025	29·770	87·1	63·8	23·3	117·6	35·2	82·4	77·6	84·7	74·4	—0·3
	IX.—Rajputana.																	
18	Jaipur	1,431	28·436	28·334	·102	28·379	+·002	29·741	91·1	66·3	24·8	116·2	38·5	79·7	82·7	88·7	77·5	+0·4
	X.—Bombay.																	
23	Bombay	37	29·887	29·789	·098	29·836	+·009	29·813	86·9	75·8	11·1	94·2	62·1	32·1	81·3	83·7	80·2	+0·9
	XIV.—Mysore.																	
30	Bangalore	3,021	26·976	26·866	·110	26·924	+·023	29·752	85·9	64·8	21·1	98·3	51·8	46·5	77·4	82·8	74·0	+1·2
	XV.—Madras.																	
31	Pudukkottai	318	29·626	29·485	·141	29·557	...	29·803	93·2	75·0	18·2	107·8	62·9	44·9	83·3	90·1	84·1	...
	Madras	22	29·910	29·798	·112	29·860	+·018	29·812	91·1	75·1	16·0	110·3	66·6	43·7	86·0	88·1	82·1	+0·3
	Hill stations, excluding Kashmir and Baluchistan.																	
	Saraia †	...	23·223	23·162	·061	23·183	...	23·145	57·4	37·2	20·2	80·0	15·9	64·1	50·8	51·7	47·1	...
	Mukteswar	7,502	*22·838*	22·779*	·059	22·802*	...	22·760*	61·9	47·1	14·8	79·5	21·0	58·5	55·6	58·1	54·2	...
	Katmandu	4,369	*25·630*	25·594	·036	25·634	+·009‡	25·589	77·1	53·5	23·6	90·4	30·2	60·0	67·1	72·7	65·9	+0·6‡
	Kodaikanal	7,688	*22·864*	22·800	·064	22·832	...	22·767	66·1	51·3	14·8	76·6	40·7	35·9	63·3	59·7	58·7	...
	Dodabetta	8,539?	*22·090*	22·028	·062	22·056	...	21·990	58·6	49·1	10·5	69·3	41·4	27·9	56·4	55·7	53·1	...
	Extra India.																	
	Seychelles	15	29·990	29·901	·089	29·953	+·006‡	29·888	84·2	76·0	6·2	89·3	73·3	16·0	83·0	82·9	80·1	+1·2‡
	Mauritius	181	...	...	...	29·907	+·023	30·029	...	...	...	...	...	...	...	...	74·0(a)	+0·7

N. B.—Elevations in italics indicate barometric determinations.
NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,300 feet.

* Mean of 8 months.
† " " 9 "
(a) " " 11 "

‡ Departure from old normal.

A.

at 15 stations in India, etc., in the year 1914.

Temperature, Wet-bulb.				Vapour tension in inches of mercury.					Humidity.					Cloud.				Rainfall.		Station.	Number of sub-division.
Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Total rainfall for the year.	Heaviest rainfall during the year.		
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	1
																				III.—Bengal.	
68·5	73·6	73·8	72·0	·638	·748	·704	·727	—·017	87	68	59	74	— 8	4·3	5·1	4·7	+0·2	57·23	4·71	Calcutta	5
																				V.—United Provinces of Agra and Oudh.	
63·5	69·0	70·4	67·6	·552	·539	·499	·530	—·028	72	46	36	54	— 7	4·4	4·6	4·5	+1·0	35·70	4·08	Allahabad	9
																				VI.—Punjab.	
60·1	66·6	68·3	65·0	·518	·548	·527	·541	+·043	81	56	44	63	+ 7	3·0	3·3	3·1	+0·2	27·29	2·85	Lahore	11
																				IX.—Rajputana.	
53·8	65·9	67·1	62·9	·449	·460	·424	·452	—·013	64	40	33	48	— 5	2·8	4·1	3·5	—0·2	24·84	2·36	Jaipur	18
																				X.—Bombay.	
70·6	74·7	76·0	73·8	·682	·776	·801	·773	—·019	76	72	69	75	— 3	3·9	3·9	3·9	+0·1	31·62	7·01	Bombay	25
																				XIV.—Mysore.	
62·1	67·0	67·2	65·5	·529	·546	·489	·531	—·011	85	60	48	66	— 2	4·4	5·0	4·7	...	45·70	7·01	Bangalore	28
																				XV.—Madras.	
...	75·2	76·0	...	...	·745	·714	...	...	...	61	51	...	...	4·9	5·9	5·4	...	36·96	3·75	Pudukkottai	31
72·7	75·6	77·1	75·4	·775	·789	·810	·808	—·001	89	64	66	75	— 1	4·5	4·7	4·6	—0·4	56·63	5·86	Madras.	
																				Hill stations, excluding Kashmir and Baluchistan.	
...	43·2	44·5	...	...	·217	·235	...	...	...	59	63	...	...	4·0	4·2	4·5	...	51·60	8·26	Sanain.	
42·3	46·8	51·0	47·3	·246	·295	·323	·288	...	67	62	63	66	...	5·2	6·1	5·7	...	74·26	10·02	Muktesvar.	
51·3	59·7	61·9	57·7	·388	·453	·453	·440	—·009	86	65	54	70	— 3	3·9	4·8	4·3	—0·2	63·96	3·04	Kathmandu.	
47·0	54·0	55·5	52·5	·286	·361	·307	·347	...	75	65	73	73	...	5·3	7·8	6·8	...	70·66	4·10	Kodaikanal.	
42·3	50·8	51·2	48·1	·215	·215	·216	·282	...	63	71	76	70	...	6·9	7·8	7·3	...	52·44	2·19	Dodabetta.	
																				Extra India.	
71·9	76·7	77·1	75·2	·703	·853	·853	·821	+·009	73	78	75	76	— 3	6·0	6·4	6·2	0†	105·99	5·53	Seychelles.	
...	...	...	68·9*	...	...	...	·613*	—·007	...	...	...	75	0	...	...	...	...	43·09	...	Mauritius.	

* Mean of 11 months. † Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 223 stations in India, etc., in the year 1914.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

	Pressure departure from normal of year.	Temperature of air.								Wind	Hygrometry.				Cloud.		Rainfall.		
		Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean and minimum.	Departure from normal of year.	Mean daily range of temperature.	Absolute range during year.	Departure of velocity from normal.	Mean humidity of year.	Departure from normal of year.	Mean vapour tension of year.	Departure from normal of year.	Mean cloud amount of year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.
Burma	+·020	87·4	−0·9	70·2	−0·2	78·7	−0·5	17·3	27·1	−0·2	84	+1	·736	−·013	5·3	+0·5	85·44	78·14	+7·30
Assam	+·025	83·7	−0·4	66·1	+0·3	74·9	−0·3	17·7	28·6	−0·4	89	−2	·688	−·016	4·8	+1·8	87·05	98·37	−11·32
Bengal	+·025	86·0	−0·2	69·3	−0·3	77·6	−0·3	16·7	27·6	−1·0	84	0	·740	−·016	4·3	−0·3	69·38	74·92	−5·54
Bihar and Orissa	+·026	88·3	−0·5	68·0	−0·3	78·1	−0·7	20·3	33·7	−0·1	76	0	·661	−·009	3·8	+0·2	48·55	51·44	−2·89
United Provinces of Agra and Oudh	+·025	89·3	0	66·2	0	77·8	0	23·1	38·3	−0·3	67	−2	·578	−·002	2·7	−0·4	38·94	38·40	+0·54
Punjab	+·027	86·9	−2·3	63·2	+0·3	75·1	−1·0	23·7	41·6	+0·3	68	+5	·525	+·025	3·0	+0·1	28·61	19·86	+8·75
North-West Frontier Province	+·004	85·7	−2·3	61·7	+0·9	73·7	−0·7	23·9	42·6	−0·5	71	+7	·527	+·041	2·9	+0·3	30·30	17·13	+13·17
Sind	+·017	90·7	−0·3	69·8	+1·7	80·3	+0·7	20·9	36·2	−1·1	68	+5	·647	+·075	2·4	−0·4	6·10	6·45	−0·35
Rajputana	+·012	91·1	−0·5	67·5	+0·1	79·1	−0·2	23·3	40·0	+0·4	51	−3	·466	−·032	2·6	−0·5	22·15	21·50	+0·65
Bombay	+·011	89·3	−0·1	69·3	+0·2	79·3	+0·1	20·1	31·2	−0·7	69	0	·638	+·002	3·9	+0·3	57·02	45·50	+11·52
Central India	+·015	88·9	+0·2	65·7	+0·3	77·3	+0·5	23·2	37·9	−0·4	61	−1	·521	+·001	3·4	+0·4	36·66	36·07	+0·73
Central Provinces	+·017	89·9	0	67·4	+0·4	78·6	+0·2	22·6	36·3	+0·1	60	−3	·521	−·017	3·5	+0·1	47·22	44·25	+2·97
Hyderabad	+·014	91·3	0	69·6	+0·6	80·4	+0·3	21·7	38·8	−0·1	62	−1	·568	+·008	4·2	−0·2	40·55	32·19	+8·36
Mysore	+·022	86·1	+1·1	65·7	+0·9	75·9	+1·0	20·5	29·9	+0·5	73	−2	·571	−·012	4·9	−0·3	33·88	36·03	−2·15
Madras	+·021	90·5	+0·1	74·1	+0·5	82·3	+0·3	16·4	26·2	+0·6	76	−1	·759	−·005	4·7	+0·1	46·16	43·47	+2·69

TABLE

(2) Abstract of observations taken at 8 hrs. at 223

Number of sub-division.	Station.	Elevation of bar-cistern above sea-level, in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and to standard gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	I.—Burma.																				
2	Victoria Point	147	29·796	...	29·874	30·007	29·603	·404	·159	79·7	86·4	...	74·9	...	80·6	...	11·4	94·4	67·0	27·4	18·4
	Mergui	65	29·835	+·021	29·881	30·161	29·628	·533	·152	78·1	86·8	—0·7	71·3	+0·1	80·1	+0·3	15·5	95·2	57·0	38·2	23·7
	Tavoy	19	29·930	+·006	29·982	30·219	29·614	·605	·188	76·7w	87·7w	+0·3w	72·7w	+1·4w	80·2w	+0·9w	15·0w	99·4	54·2	45·2	23·6w
	Moulmein	94	29·849	+·025	29·881	30·207	29·501	·706	·215	75·8	88·7	+0·8	72·3	—0·1	80·5	+0·2	16·5	100·2	54·7	45·5	25·2
	Rangoon	18	29·916	+·013	29·972	30·279	29·541	·738	·219	75·5	89·0	—0·5	72·3	—0·5	80·7	—0·5	16·7	101·5	56·2	45·3	25·4
	Bassein	27	29·896	+·022	29·960	30·263	29·483	·779	·229	76·3	87·5	—0·5	72·8	+0·7	80·2	+0·4	14·7	101·2	54·9	46·3	24·1
	Diamond Island	41	29·876	+·008	29·952	30·231	29·471	·760	·219	79·6	85·6	+0·1	76·6	+1·4	81·1	+0·6	9·0	91·0	67·0	24·0	15·8
	Tonngoo	164	29·782	+·025	29·870	30·153	29·395	·740	·225	74·9	89·6	—1·3	60·8	—0·9	79·4	—1·1	19·2	101·9	47·7	54·2	29·2
	Kyaukpyu	18	29·895	...	29·953	30·305	29·282	1·023	·267	77·1	84·4	...	71·4	...	77·9	...	13·0	99·2	56·2	42·8	23·2
	Akyab	20	29·892	+·020	29·963	30·272	29·087	1·185	·283	75·5	85·5	—0·6	70·7	—1·5	78·1	—1·1	14·8	96·5	54·5	42·0	24·5
3	Thayetmyo	121	29·791w	+·014w	29·855w	30·172	29·352	·826	·233	76·3	89·3z	—1·9z	69·3	—0·3	78·3z	—1·2z	21·7z	105·4	45·9	59·5	31·1z
	Minbu	165	29·736	+·013	29·816	30·140	29·334	·806	·245	75·3	89·9	—2·4	70·4	—0·7	80·1	—1·6	19·5	108·3	50·0	58·3	30·2
	Yamethin	637	29·360	+·018	29·865	29·610	28·940	·670	·227	74·0	89·8	—2·3	58·9	—0·5	79·3	—1·4	20·9	105·5	47·2	59·3	31·7
	Mandalay	250	29·679	+·041	29·872	30·054	29·306	·779	·259	75·6	92·5	+0·1	70·0	—1·2	81·2	—0·5	22·5	108·2	45·7	62·6	34·7
	Monywa	280	29·633	—·002*	29·866	30·069	29·267	·802	·269	74·3	91·1	...	70·6	...	80·8	...	20·4	107·6	49·1	58·5	32·3
	Lashio	2,880	27·122	+·008	27·068	27·458	26·788	·670	·241	64·6	80·3	—2·3	50·3	+0·2	70·3	—1·0	20·0	98·1	36·0	57·1	32·0
	Bhamo	361	29·545	+·046	29·969	29·854	29·132	·852	·261	68·8	85·6	—1·0	64·3	—0·8	75·0	—0·9	21·3	101·4	43·8	57·6	32·4
	Myitkyina	458	29·438	+·010*	29·867	29·855	29·033	·822	·261	68·3	83·4	...	64·7	...	74·0	...	18·7	97·5	43·0	54·4	30·0
	II.—Assam.																				
4	Dibrugarh	353	29·548	+·003*	29·872	29·961	29·078	·883	·294	68·0	80·7	...	64·6	...	72·7	...	16·1	96·2	45·0	50·3	27·6
	Sibsagar	333	29·560w	+·021w	29·869w	29·996	29·117	·779	·290w	69·0	80·7	—1·1	65·2	—0·7	73·0	—0·9	15·5	97·4	43·8	53·6	26·9
	Tezpur	253	29·663	+·017*	29·880	30·091	29·226	·865	·299	70·0	83·1	...	66·4	...	74·7	...	16·7	96·1	47·4	48·7	27·0
	Gauhati	196	29·719	+·001l	29·875	30·147	29·271	·876	·292	71·6	84·6	...	65·9	...	75·2	...	18·6	98·7	45·6	53·1	29·6
	Dhubri	115	29·778	+·026	29·850	30·109	29·335	·774	·287	72·5	83·0	+0·2	68·3	+0·1	75·6	+0·2	14·7	95·6	50·5	44·9	24·8
	Silchar	104	29·815	+·027	29·873	30·201	29·390	·811	·280	72·3	85·9	—0·3	67·3	—0·2	76·6	—0·2	18·6	100·2	49·5	51·5	30·1
	Srimangal	66	29·747l	...	29·909m	30·136	29·413	·723	·314l	70·8	88·1	...	64·7	...	76·4	...	23·5	97·9	41·8	56·1	34·5
	III.—Bengal.																				
5	Cox's Bazar	36	29·850	...	29·931	30·138	29·312	·920	·269	74·8	85·1	...	69·0	...	77·1	...	16·0	96·5	52·0	44·5	25·7
	Chittagong	87	29·811	+·020	29·846	30·161	29·337	·824	·286	73·4	84·6	—0·1	68·5	—1·0	76·3	—0·5	16·1	95·2	51·3	43·9	28·9
	Noakhali	43	29·855	...	29·946	30·238	29·422	·816	·281	74·3	84·1	...	69·7	...	76·9	...	14·5	92·8	56·3	42·5	24·6
	Barisal	12	29·872	+·025	29·931	30·262	29·440	·822	·276	75·0	85·8	—0·2	69·7	—0·3	77·7	—0·5	16·1	96·2	44·1	52·1	27·7
	Narayanganj	26	29·858	+·028	29·934	30·262	29·426	·836	·292	75·1	85·9	—0·7	70·2	—0·4	77·9	—0·5	15·5	97·4	52·0	45·4	25·8
	Mymensingh	68	29·835	+·029	29·849	30·224	29·398	·826	·274	72·7	85·6	+1·2	59·3	+0·9	77·4	+1·0	16·2	96·9	51·2	45·7	26·6
	Bogra	75	29·903	+·024	29·931	30·226	29·366	·860	·284	73·0	86·1	—0·3	68·0	—0·1	77·0	—0·2	18·1	99·6	49·2	51·4	29·7
	Dinajpur	123	29·743	+·023	29·828	30·181	29·296	·885	·288	72·2	86·5	+0·4	65·7	—0·4	76·6	0	19·7	100·2	47·0	53·3	30·7
	Jalpaigori	283	29·606	+·025	29·853	30·059	29·179	·880	·291	70·6	84·7	+0·9	56·3z	+0·7z	75·5z	+0·9z	18·3z	97·1	46·3	50·8	29·0z
	Sangor Island	10	29·854	+·025	29·919	30·291	29·413	·878	·286	77·4	84·9	—0·6	72·3	—1·4	78·6	—1·0	12·5	93·3	60·7	43·1	23·9

N.B.—Elevations in *italics* indicate barometrical determinations.

w Mean of 11 months. z Mean of 5 months.

x " " 10 " y " " 2 "

" " 6 "

B.

stations in India, etc., in the year 1914.

Wind direction. Number of winds from									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.						Heaviest rainfall during year.	Station.
Calms.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.		
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									I.—Burma.
78	19	133	32	39	16	32	24	43	5·6	...	...	83	...	·691	...	5·7	...	138	...	...	184·84	...	...	6·26	Victoria Point.
338	0	6	1	6	5	5	3	1	1·9	1·4	+0·5	87	+ 2	·841	+·025	5·8	+ 0·5	156	155·7	+ 0·3	162·68	163·22	— 0·54	5·55	Mergui.
210	20	17	15	33	36	20	2	12	1·7	1·1	+0·6	89	+ 2	·822	+·021	4·2	— 0·9	146	147·0	— 1·0	220·66	215·84	+ 4·84	5·69	Tavoy.
8	1	31	140	63	73	42	4	3	6·0	2·3	+3·7	89	+ 2	·797	—·003	5·4	+ 0·5	136	139·9	— 3·9	213·66	187·66	+26·00	12·28	Moulmein.
45	46	78	30	28	63	88	18	19	3·1	3·1	0	87	— 1	·759	—·016	5·7	+ 2·7	120	121·4	— 1·4	111·48	97·63	+13·85	5·10	Rangoon.
315	8	23	11	17	29	22	19	21	3·6	3·2	+0·6	88	0	·816	—·001	5·7	+ 0·6	132	125·8	+ 6·2	136·06	109·77	+26·29	5·98	Bassein.
35	51	83	23	10	17	77	23	58	5·3	3·4	+1·6	93	+ 2	·628	+·014	6·3	+ 0·9	123	112·9	+10·1	129·33	113·61	+15·77	5·21	Diamond Island.
85	80	40	15	67	70	15	4	19	1·6	2·4	—0·8	85	— 1	·749	—·030	5·7	+ 0·5	125	114·3	+10·7	109·30	82·26	+26·04	3·41	Toungoo.
63	37	55	49	71	25	7	13	16	3·7	...	...	85	...	·800	...	4·4	...	128	...	...	196·25	...	...	14·56	Kyaukpyu.
35	54	72	53	43	31	19	6	39	2·8	2·4	+0·4	87	— 1	·778	—·027	4·7	— 0·4	114	123·8	— 9·8	237·33	191·44	+45·89	10·60	Akyab.
140	29	22	7	28	95	11	5	15	3·1	3·7	—0·6	75	— 1	·690	—·018	5·1	+ 0·9	83	72·7	+10·3	44·56	37·34	+ 7·22	2·02	Thayetmyo, (b)
19	6	10	84	38	4	5	2	147	3·2	5·3	—2·1	74	— 1	·660	—·042	5·4	+ 2·0	73	58·3	+14·7	52·61	34·33	+18·28	3·62	Minbu.
140	30	1	0	69	99	4	0	22	2·8	4·2	—1·4	79	+ 1	·678	—·024	3·3	+ 0·6	73	63·4	+10·6	36·60	38·65	— 2·05	2·71	Yamethin.
183	9	9	8	73	64	13	3	5	2·6	3·7	—1·0	79	— 1	·661	—·049	3·6	— 0·7	55	50·3	+ 4·7	32·56	32·97	— 0·41	3·20	Mandalay. (a)
73	100	21	16	73	32	4	1	45	2·4	...	...	79	...	·686	...	5·3	...	41	44·1	— 3·1	36·24	32·18	+ 4·06	5·07	Monywa.
253	12	35	10	7	9	55	3	11	1·9	...	...	86	0	·538	—·023	6·1	— 0·6	90	99·8	— 9·8	57·70	62·25	— 4·55	4·51	Lashio.
213	23	72	9	3	3	26	7	10	1·1	1·8	—0·7	91	+ 4	·563	—·011	5·4	+ 0·3	96	99·6	— 3·6	77·55	71·69	+ 5·86	4·30	Bhamo.
313	2	17	11	10	4	3	1	4	1·1	...	...	87	...	·627	...	5·4	...	102	105·0	— 3·0	75·05	79·14	— 1·09	3·59	Myitkyina.
																									II.—Assam.
250	11	36	43	5	2	7	5	2	0·7	...	...	91	...	·655	...	5·0	...	120	134·8	—14·8	87·41	109·50	—19·09	3·23	Dibrugarh.
102	61	59	7	5	27	3	4	7	1·6	1·8	—0·2	91	— 4	·669	—·042	5·9	— 1·2	117	129·1	—12·1	74·05	96·27	—22·22	3·60	Sibsagar. (c)
98	10	112	84	26	9	12	12	4	2·2	...	...	89	...	·678	...	5·3	...	93	106·5	—13·5	71·41	69·46	+ 1·95	5·12	Tezpur, (c)
333	4	13	5	4	1	4	0	2	1·3	...	...	87	...	·695	...	5·5	...	83	92·8	— 9·8	68·22	62·88	+ 5·34	3·84	Gauhati.
22	6	126	132	30	18	22	8	0	3·5	3·8	—0·5	86	— 1	·709	+·011	4·2	— 0·7	77	93·9	—16·9	83·02	94·62	—11·60	5·13	Dhubri.
233	1	42	49	8	0	1	0	1	1·3	1·7	—0·4	87	— 1	·709	—·018	2·9	— 3·5	126	136·6	—10·6	109·34	124·56	—15·65	4·67	Silchar.
...	...	...	...	...	...	...	...	...	...	...	...	90	...	·700	...	3·7	...	113	123·7	—10·7	99·72	96·88	+ 3·13	4·68	Srimangal.
																									III.—Bengal.
83	20	67	61	111	45	5	1	3	3·2	...	...	87	...	·766	...	4·9	...	115	...	...	137·92	...	...	6·57	Cox's Bazar.
173	2	83	45	59	3	3	0	3	1·6	3·6	—2·0	87	0	·730	—·033	4·6	— 0·4	83	93·6	—10·6	110·29	98·23	+12·06	8·13	Chittagong.
98	31	49	25	90	44	29	8	8	2·5	...	...	86	...	·756	...	4·2	...	111	112·5	— 1·5	122·08	120·30	+ 1·78	4·50	Noakhali.
198	13	28	20	29	60	21	4	2	1·3	2·3	—1·0	84	— 2	·773	—·029	4·2	— 0·6	111	101·3	+ 9·7	89·97	79·72	+10·25	5·68	Barisal.
154	11	10	40	49	52	23	17	13	1·9	3·6	—1·8	83	— 3	·740	—·032	5·1	— 0·2	99	91·0	+ 1·0	77·33	70·45	+ 6·88	5·34	Narayanganj.
278	0	0	46	35	6	3	1	3	0·9	2·0	—1·1	87	— 1	·739	—·010	5·0	+ 0·2	88	106·4	—18·4	78·56	93·04	—14·48	5·34	Mymensingh.
183	26	38	58	7	27	23	4	9	1·0	2·2	—1·2	85	+ 1	·723	—·003	4·4	+ 0·4	77	84·2	— 7·2	61·91	67·90	— 5·99	4·42	Bogra.
128	12	53	85	36	22	11	12	7	1·5	2·6	—1·1	85	+ 2	·709	+·015	3·5	— 0·7	54	79·1	—25·1	48·99	68·92	—19·93	6·10	Dinajpur.
353	0	1	4	8	0	0	0	0	1·2	...	...	88	+ 2	·691	+·005	1·9	+ 1·9	85	102·2	—17·2	99·07	122·42	—23·35	5·60	Jalpaiguri.
18	71	53	31	23	56	74	39	20	6·2	3·6	+2·3	94	— 2	·805	—·038	4·9	+ 0·8	77	80·3	— 3·3	54·94	70·21	—15·27	4·62	Saugor Island,

(a) Wind observations for 363 days.
(b) " " 352 "
(c) Mean of 10 months.
(f) Mean of 8 months.
* Mean of 11 months.
(c) Wind observations for 364 days.

TABLE

(2) *Abstract of observations taken at 8 hrs. at 223*

Number of sub-division.	Station.	Elevation of bar-cistern above sea-level, in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and to mean gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of years.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean daily maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	III.—Bengal— *concld.*																				
	Midnapore	140	29·713	...	29·812	30·138	29·272	·866	·283	76·3	89·3	...	70·4	...	79·8	...	18·9	105·0	48·5	56·5	31·1
	Calcutta	21	29·953	+·023	29·821	30·273	29·403	·870	·282	74·8	87·8	+0·7	70·9	+0·4	79·1	+0·8	16·4	100·1	51·1	49·0	27·7
	Jessore	30	29·656	+·031	29·833	30·256	29·418	·838	·290	75·8	86·6	−1·1	69·1	−0·8	77·7	−1·0	17·5	99·9	46·9	53·0	29·1
	Burdwan	99	29·772	+·022	29·831	30·215	29·309	·906	·300	74·6	87·7	−1·4	69·4	−1·2	78·5	−1·2	18·3	102·2	50·2	52·0	30·3
	Berhampore	67	29·809	+·024	29·827	30·241	29·351	·890	·310	73·3	86·5	−1·3	69·5	0	78·0	−0·7	17·0	100·1	50·2	49·9	27·6
	IV.—Bihar and Orissa.																				
6	Balasore	50	29·833	+·024	29·819	30·291	29·337	·954	·322	74·9	88·6	0	69·9	−0·6	79·3	−0·8	18·7	104·4	49·6	54·8	31·9
	Hukitala (False Point).	29	29·849	+·022	29·819	30·287	29·372	·915	·294	...	...	...	...	...	...	...	...	...	...	...	...
	Cuttack	80	29·805	+·034	29·827	30·260	29·347	·913	·291	76·2	89·2	−2·2	71·9	−0·7	80·5	−1·5	17·3	105·6	52·1	53·5	28·9
	Puri	24	29·852	...	29·817	30·276	29·360	·916	·299	77·8	86·9	...	73·7	...	80·2	...	13·2	94·0	55·8	38·2	23·7
	Angul	495	29·445	...	29·823	29·838	28·975	·863	·289	75·1	89·7	...	69·0	...	79·3	...	20·6	109·4	48·0	61·4	33·9
	Sambalpur	436	29·344	+·026	29·837	29·809	28·965	·844	·280	74·8	89·7	−1·3	68·4	−1·6	79·1	−1·4	21·3	110·5	43·2	67·3	35·1
7	Chaibasa	733	29·115	+·019	29·815	29·538	28·689	·849	·276	71·8	89·4	−1·0	67·4	−1·0	78·4	−1·0	22·0	111·2	43·8	67·4	35·4
	Ranchi	2,128	27·736	+·029	29·807	28·096	27·326	·770	·239	71·0	84·3	−0·2	65·3	+0·1	74·8	−0·2	19·0	104·5	45·2	59·3	30·9
	Purulia	816	29·006*	...	29·782*	29·473	28·603	·870	·284	73·2	90·1	...	68·2	...	79·2	...	21·8	109·7	48·2	61·5	35·8
	Daltonganj	730	29·143	...	29·846	29·557	28·685	·872	·286	68·6	90·5	...	64·6	...	77·5	...	25·9	112·1	38·3	73·6	39·0
5	Purnea	124	29·751	+·027	29·832	30·196	29·291	·905	·286	74·5	86·6	−0·1	66·2	−0·2	76·4	−0·1	20·5	99·8	44·8	55·0	31·2
	Monghyr †	155	29·662	...	29·771	30·189	29·220	·969	·277	77·6	89·3	...	70·5	...	80·0	...	18·6	110·5	48·9	61·6	33·0
	Darbhanga	165	29·707	+·029	29·831	30·176	29·252	·924	·283	73·3	86·3	+0·9	66·6	−2·0	76·7	−0·6	20·2	104·2	45·2	59·0	31·9
	Puss	168	29·674	...	29·821	30·130	29·215	·915	·280	72·9	88·0	...	65·2	...	76·6	...	22·8	106·1	42·4	63·7	34·6
	Patna	183	29·691	+·030	29·822	30·146	29·224	·922	·281	75·0	86·7	−1·0	68·8	+0·3	77·7	−0·4	18·0	104·7	47·2	57·5	30·0
	Buxar	239	29·637	...	29·827	30·100	29·143	·957	·276	72·4	89·4	...	68·1	...	78·7	...	21·4	109·5	46·0	63·5	34·8
	Gaya	372	29·489	+·023	29·819	29·909	29·041	·868	·268	75·5	90·0	0	68·1	−0·7	79·0	−0·4	21·9	110·4	45·0	65·4	35·2
	Naya Dumka	469	29·370	+·030	29·820	29·799	28·937	·862	·293	74·2	87·2	−0·3	66·6	−1·2	76·9	−0·7	20·6	102·6	45·5	57·1	32·7
	V.—United Provinces of Agra and Oudh.																				
9	Gorakhpur	257	29·593	+·025	29·814	30·066	29·104	·962	·278	72·3	87·9	−0·1	65·4	−2·0	76·7	−1·0	22·5	108·9	41·8	67·1	34·8
	Benares	267	29·692	+·028	29·819	30·050	29·116	·934	·273	74·1	89·7	+0·1	66·5	−0·4	78·1	−0·1	23·1	111·7	40·8	70·9	37·3
	Allahabad	309	29·541	+·019	29·812	30·005	29·073	·932	·276	74·3	90·7	+0·5	66·9	+0·1	78·8	+0·3	23·8	115·5	41·0	74·5	39·1
	Cawnpore	416	29·440	+·033	29·822	29·905	28·991	·914	·274	73·6	89·9	+0·3	66·9	+0·3	78·4	+0·2	23·0	114·4	42·9	71·5	38·2
	Lucknow	368	29·488	+·032	29·821	29·969	29·014	·955	·275	74·5	89·7	−0·1	66·8	+1·1	78·2	+0·5	23·9	113·6	40·3	73·3	38·7
	Bahraich	407	29·430	+·018	29·806	29·892	28·964	·928	·283	71·8	87·9	−0·3	65·7	0	76·8	−0·1	22·2	109·2	41·3	67·3	36·5
10	Jhansi	824	29·036	+·015	29·836	29·468	28·598	·870	·277	75·9	91·8	+0·6	67·9	−1·2	79·9	−0·3	24·0	116·8	40·0	76·8	39·6
	Agra	556	29·296	+·020	29·819	29·743	28·836	·907	·286	76·5	90·8	+0·1	68·3	+0·7	79·7	+0·4	22·5	116·6	40·1	76·5	39·5
	Mainpuri	516	29·324	+·023	29·810	29·732	28·810	·922	·286	73·4	90·7	+0·9	66·0	+0·4	78·4	+0·7	24·8	117·3	37·7	79·6	40·5
	Bareilly	568	29·267	+·024	29·810	29·729	28·787	·942	·280	71·8	87·7	+0·1	65·5	+0·6	76·5	+0·3	22·3	109·8	39·4	69·4	37·3
	Roorkee	899	29·046	+·036	29·824	29·393	28·456	·937	·290	69·3	85·1	−2·1	62·4	−0·2	73·7	−1·2	22·7	109·3	35·4	73·9	39·4

N. B.—Elevations in italics indicate barometrical determinations.

* Mean of 10 months.
† " " 9 "

B.—contd.

stations in India, etc., in the year 1914.

Wind direction. Number of winds from									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.					Heaviest rainfall during year.	Station.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.		
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									III.—Bengal —*concld.*
155	39	36	14	44	34	15	7	20	2·0	...	...	79	...	·745	...	3·4	...	81	80·2	+ 0·8	58·46	58·12	+ 0·34	3·65	Midnapore.*
41	20	28	45	39	38	86	13	55	3·3	3·2	+0·1	54	+ 1	·757	—·011	4·6	+0·4	79	85·1	— 6·1	57·23	61·81	— 4·58	4·71	Calcutta.
216	8	13	3	50	41	17	3	5	2·5	2·2	+0·3	81	— 5	·748	—·013	4·2	—0·5	53	88·3	— 5·8	67·85	65·79	+ 2·06	4·43	Jessore.
130	34	20	18	31	17	47	40	23	1·6	2·3	—0·7	80	+ 4	·719	+·013	5·2	+0·7	65	76·3	—11·3	55·68	58·00	— 2·32	4·80	Burdwan.
134	26	15	46	34	53	31	11	15	1·7	2·4	—0·7	83	— 2	·711	—·032	4·9	+0·2	78	76·0	+ 2·0	65·87	55·27	+10·60	6·46	Berhampore.
																									IV.—Bihar and Orissa.
76	46	22	14	6	45	89	9	58	2·5	3·5	—1·0	82	— 1	·740	—·036	4·3	—0·6	88	77·4	+10·6	71·62	61·72	+ 9·90	6·29	Balasore.
21	35	8	6	18	29	119	25	104	7·3	6·8	+0·5	...	...	...	...	5·0	—0·2	65	72·0	— 7·0	77·07	62·98	+14·99	9·40	Hukitola (False Point.)
189	1	17	11	6	10	72	53	6	1·9	2·1	—0·2	79	+ 1	·731	—·008	4·9	+0·6	77	74·1	+ 2·9	59 66	59·30	+0 36	3·40	Cuttack.
25	96	19	3	6	29	97	42	48	7·1	...	...	82	...	·796	...	4·1	...	64	60·3	+ 3·7	50·59	53·57	— 2·98	4·98	Puri.
124	14	17	14	14	7	11	36	128	3·5	...	...	74	...	·675	...	4·1	...	72	72·0	0	42·52	47·93	— 5·41	1·95	Angul.
11	72	109	22	15	13	72	33	18	3·0	2·6	+0·4	75	+ 4	·662	+·003	4·8	+0·9	67	74·9	— 7·9	57·06	66·54	— 8·58	5·46	Sambalpur.
206	1	17	8	0	11	100	19	4	2·0	1·3	+0·7	78	+ 3	·637	—·021	4·3	+0·7	78	74·9	+ 3·1	45 80	52·62	— 6·82	4·15	Chaibasa.
62	24	10	30	20	26	45	82	66	4·3	4·6	—0·3	66	— 1	·523	—·015	4·0	+0·5	77	80·4	— 3·4	45·77	56 67	—10·90	4·12	Ranchi.
175	10	18	17	6	5	9	39	86	1·7	...	...	72	...	·623	...	1·8	...	67	76·1	— 9·1	53·94	52·15	+ 1·79	7·15	Purulia.
259	6	16	33	15	10	17	7	2	1·9	...	...	78	...	·576	...	3·7	...	47	62·5	—15·5	32 23	42·07	— 9·84	2·67	Daltonganj.
48	22	54	121	37	9	40	27	6	1·7	2·3	—0·6	86	+ 2	·700	+·011	3·5	—0·1	57	70·1	—13·1	40·93	61·86	—20·93	3·72	Purnea.*
47	2	7	97	47	2	18	43	9	4·0	...	...	71	...	·700	...	4·2	...	49	...	...	61·14§	...	...	8·35	Monghyr. ‡
186	3	34	106	7	1	3	21	4	2·5	2·9	—0·4	79	0	·678	—·003	3·5	+0·6	47	59·3	—12·3	56·19	50·37	+ 5·82	5·45	Darbhangs.
96	14	21	115	35	10	22	31	13	2·5	...	...	81	...	·681	...	3·1	...	52	...	...	54·36	...	...	7·86	Pusa. †
159	5	10	100	13	13	38	23	4	3·1	2·7	+0·4	73	+ 1	·660	+·007	3·7	+0·1	56	56·1	— 0·1	50·53	47·03	+ 3·50	6·51	Patna.
68	9	18	89	31	40	53	49	8	3·0	...	...	71	...	·603	...	4·2	...	45	53·3	— 8·3	32·30	41·22	— 8·72	4·25	Buxar.
192	13	47	17	15	21	20	38	2	1·7	2·7	—1·0	67	— 4	·622	—·015	3·0	—0·7	51	57·9	— 6·9	40·31	46·57	— 6·26	5·22	Gaya.
248	9	7	31	29	9	7	5	20	1·8	...	...	73	— 2	·645	...	2·5	...	73	77·8	— 4·8	60·23	55·73	+ 4·50	5·30	Naya Dumka.
																									V.—United Provinces of Agra and Oudh.
161	8	74	58	15	3	9	31	6	1·5	1·7	—0·2	75	0	·690	—·012	1·8	—0·9	53	57·3	— 4·3	41·94	50·77	— 8·83	4·98	Gorakhpur.
104	5	8	35	31	22	64	25	21	2·3	2·7	—0·4	71	— 3	·625	0	3·5	+0·1	47	52·0	— 5·0	42·20	39·87	+ 2·33	11·35	Benares.
101	9	21	64	21	16	29	31	23	2·7	3·8	—1·1	62	— 5	·552	—·042	3·8	+0 3	55	48·8	+ 6·2	39·44	39·16	+ 0·29	4·08	Allahabad.
135	22	14	36	30	30	30	41	27	2·1	2 7	—0·6	69	— 3	·588	—·002	1·4	—1·5	46	44·4	+ 1·6	31·58	36·06	— 4·48	2·77	Cawnpore.
217	5	8	57	22	12	16	21	7	1·6	2·2	—0·6	65	— 5	·591	—·001	2·8	—0·5	47	47·7	— 0·7	36 35	38·05	— 1·70	3·90	Lucknow.
146	14	16	70	49	10	19	22	19	1·8	2·3	—0·5	69	— 6	·578	—·003	2·5	—0·3	44	50 6	— 6·6	42·96	44·32	— 1·36	5·62	Bahraich.
101	13	35	29	15	11	80	54	27	3·1	2·4	+0·7	52	— 3	·496	—·017	3·6	+1·2	44	42·7	— 3·7	26·31	37·57	—11·26	2·90	Jhansi.
110	12	29	44	28	18	60	33	30	2·8	3·3	—0·5	60	— 1	·594	+·061	2·5	—0·3	40	37·9	+ 2·1	31·09	27·32	+ 3·77	3·42	Agra.*
55	30	16	53	49	21	23	71	48	1·6	1·4	+0·2	67	+ 1	·568	+·014	1·9	—1·4	44	38·1	+ 5·9	28·11	27 42	+ 0·69	2·25	Mainpuri.
191	9	5	63	37	6	11	30	13	1·3	2·0	—0·7	73	0	·603	+·030	3·7	+0·7	41	47·8	— 6·8	40·10	44·96	+ 1·14	4·24	Bareilly.
239	0	3	5	62	1	1	0	49	1·9	1·8	+0·1	70	— 1	·532	+·009	2·9	—0·2	53	47·6	+ 5·4	54·81	42·30	+12·51	7·62	Moorkee.

* Wind observations for 364 days.
† ,, ,, ,, 357 ,,
‡ ,, ,, ,, 271 ,,
§ Rainfall from October to December wanting.
‖ Mean of 8 months.

TABLE

(2) *Abstract of observations taken at 8 hrs. at 223*

Number of sub-division.	Station.	Elevation of bat-eistern above sea-level, in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6.	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	VI.—Punjab.																				
11	Delhi	718	29·117	+·019	29·816	29·558	28·652	·906	·261	71·1	88·2	−0·8	66·1*	−0·1*	76·8*	−0·6*	21·7*	114·2	40·3	73·9	38·3*
	Hissar	725	29·141		29·822	29·643	28·652	·991	·315	70·2	80·7		53·3		76·5		26·3	117·8	32·9	84·9	43·8
	Patiala	818	29·008		29·814	29·467	28·530	·931	·308	69·2	85·6		53·9		74·8		21·7	112·0	36·4	75·6	38·3
	Ambala	892	28·946	+·038	29·830	29·379	28·471	·908	·293	68·7	87·0	−0·9	52·7	−0·4	74·9	−0·7	24·2	114·7	34·1	80·6	41·9
	Ludhiana	812	29·028	+·036	29·830	29·501	28·513	·961	·290	69·0	86·2	−2·1	54·2	+0·5	75·2	−0·8	21·9	115·7	37·0	78·7	40·4
	Lahore	702	29·129	+·027	29·822	29·616	28·621	·995	·316	69·2	87·1	−3·5	53·6	+2·7	73·4	−0·4	23·5	117·6	35·3	82·4	41·6
	Sialkot	830	28·997	+·027	29·824	29·471	28·488	·983	·312	67·8	84·2	−3·6	51·4	−1·3	72·7	−2·4	22·8	116·2	32·8	83·4	40·7
	Rawalpindi	1,674	28·167	+·022	29·815	28·607	27·653	·954	·315	65·6	82·1*	−1·9*	48·0*	−0·2*	70·8†	−1·7†	24·8†	116·1	29·4	86·7	43·2†
12	Khushab	612	29·225	+·028	29·824	29·715	28·675	1·040	·342	71·5	86·1	−3·5	53·1	−0·7	74·6	−2·1	23·1	115·7	33·0	82·7	42·3
	Lyallpur	605	29·215		29·807	29·703	28·691	1·012	·335	69·0	87·1		50·3		73·7		26·8	118·8	26·7	92·1	45·3
	Montgomery	558	29·269	+·025	29·809	29·762	28·750	1·012	·335	72·4	88·8	−3·5	54·7	+0·3	76·7	−1·6	24·1	120·7	34·2	86·5	43·4
	Multan	426	29·412	+·019	29·807	29·928	29·853	1·075	·358	78·6	90·9	−1·0	67·2	+1·9	79·0	+0·4	23·7	121·3	38·6	82·7	40·7
	VII.—North-West Frontier Province.																				
14	Peshawar	1,113	28·737	+·007	29·858	29·245	28·143	1·102	·351	66·2	84·4	−1·3	50·6	+0·4	72·0	−0·4	24·8	120·0	32·4	87·6	44·2
	Dera Ismail Khan	590	29·242	+·001	29·820	29·759	28·654	1·105	·363	69·6*	86·9	−3·4	53·9	+1·4	75·4	−1·0	23·1	117·5	33·2	84·3	41·0
	VIII.—Sind.																				
16	Jacobabad	186	29·644	+·013	29·793	30·182	29·081	1·101	·331	75·5	94·9	−0·7	57·9	+2·7	81·4	+1·0	27·0	120·1	36·6	83·5	46·8
	Hyderabad	96	29·759	+·016	29·800	30·243	29·253	·990	·308	74·7	92·4	−1·1	59·2	+0·9	80·8	−0·3	23·2	118·9	44·9	74·0	37·9
	Karachi	13	29·876	+·022	29·839	30·313	29·411	·962	·283	75·7	84·9	+0·8	72·3	+1·5	78·6	+1·1	12·5	100·9	52·1	48·8	24·0
	IX.—Rajputana.																				
17	Bikaner	771	29·061	+·016	29·807	29·504	28·601	·903	·311	74·4	92·2	+0·2	56·8*	−2·4*	78·3*	−1·2*	25·0*	120·9	35·0	85·0	43·2*
	Jodhpur	780	29·075	+·012	29·826	29·482	28·627	·855	·283	74·6	92·5	−0·6	58·8	+0·6	80·1	0	23·6	117·5	41·0	76·5	40·4
18	Jaipur	1,431	28·421	+·007	29·819	28·806	27·905	·811	·260	74·3	91·1	+0·2	56·2	+0·6	78·6	+0·4	24·9	118·2	38·6	79·6	42·0
	Ajmer	1,611	28·263	+·017	29·843	28·646	27·841	·805	·268	70·5	87·3	−1·6	56·2	+1·9	76·8	+0·2	21·1	111·8	38·2	73·6	37·5
	Kotah	832	29·023	+·010	29·817	29·421	28·617	·804	·279	78·0	92·2	−0·5	70·3	−0·1	81·3	−0·3	21·9	117·6	46·4	71·2	36·9
	X.—Bombay.																				
19	Deesa	466	29·418	+·017	29·845	29·782	28·990	·792	·268	75·3*	93·6	+0·3	56·3	−0·7	79·9	−0·5	27·3	115·1	49·0	75·1	41·3
	Bhuj	334	29·543	+·014	29·832	29·917	29·107	·810	·261	75·7	90·6	+0·8	57·2	−1·5	78·8	−1·2	23·4	108·3	41·0	67·3	36·1
	Jamnagar	61	29·833		29·840	30·212	29·335	·877	·265	76·9	89·3		68·8		79·1		20·5	104·8	44·2	60·6	33·0
	Dwarka	37	29·869	+·009	29·852	30·236	29·447	·789	·244	77·0	84·9	+0·8	73·5	+1·0	79·2	+0·9	11·4	98·3	59·8	44·5	22·9
	Rajkot	429	29·464	+·017	29·849	29·810	29·064	·746	*·239*	74·8	91·9	−1·2	56·3*	+0·2	79·1	−0·5	25·6	110·1	42·3	67·8	37·7
	Veraval	*18*	29·885	+·015	29·846	30·218	29·496	·722	·221	75·9	84·4	−0·9	71·2	+0·2	77·8	−0·3	13·2	86·8	53·9	44·9	23·7
	Bhavnagar Para	55	29·849	−·012	29·850	30·192	29·462*	·730	·236	75·9	92·9	0	68·6	−1·4	80·9	−0·7	24·0	114·0	46·2	67·8	35·9
	Surat	39	29·866	+·010	29·849	30·204	29·490	·714	·228	76·8	90·4*	+0·5*	70·7	+1·3	80·1*	*+0·4*	20·7*	108·1	49·5	58·6	32·0*
	Ahmadabad	163	29·735	+·017	29·850	30·106	29·331	·775	·247	76·1	93·8	+0·3	70·0	−0·8	81·9	−0·5	23·7	113·1	48·7	64·4	35·4
	Bombay	37	29·877	+·003	29·855	30·175	29·536	·639	·209	78·7	86·9	+1·1	75·8†	+0·9	81·3	+1·0	11·1	94·2	63·1	32·1	18·0
25	Ratnagiri	207	29·748	+·011	29·855	30·072	29·423	·649	·195	79·4	87·5	0	73·9	+0·9	80·7	+0·4	13·6	98·9	63·9	35·6	22·0

N.B.—Elevations in *italics* indicate barometrical determinations.

* Mean of 11 months.

† „ „ 10 „

B—contd.

stations in India, etc., in the year 1914.

Wind direction. Number of winds from									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.					Heaviest rainfall during year.	Station.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.		
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									VI.—Panjab.
49	19	16	43	45	14	17	123	30	3·1	2·5	+0·6	63	+5	·522	+·032	2·8	−0·6	36	37·1	−1·1	32·25	27·52	+ 4·73	5·83	Delhi.
51	47	15	40	41	39	48	55	25	3·7*	3·5	+0·2	65	+6	·510	+·023	2·8	−0·5	30	23·2	+6·8	20·40	13·88	+ 6·52	2·48	Hissar. (*b*)
46	36	12	46	88	15	1	40	80	4·2			71		·546		2·8		48	36·5	+11·5	41·94	25·46	+16·48	6·25	Patiala. (*a*)
95	64	7	86	46	8	9	13	37	2·9	1·6	+1·4	71	−3	·527	−·030	3·7	+1·0	58	42·3	+15·7	30·75	30·19	+ 9·56	7·16	Ambala.
209	16	20	6	44	20	9	17	24	1·5	1·4	+0·1	70	+4	·519	+·003	2·1	−1·5	38	36·7	+1·3	35·04	29·05	+ 5·99	3·91	Ludhiana.
192	18	15	35	41	22	5	15	22	1·7	1·8	−0·1	73	+8	·551	+·038	3·1	+0·4	36	27·7	+8·3	27·29	19·69	+ 7·60	2·85	Lahore.
134	33	45	62	38	8	3	8	34	1·3	1·5	−0·2	78	+12	·554	+·044	3·1	+0·6	56	40·4	+15·6	33·04	31·66	+ 1·38	2·84	Sialkot.
160	23	43	18	25	14	15	30	28	1·8	1·6	+0·2	74	+6	·495	+·035	3·6	+0·4	64	48·0	+16·0	48·39	34·29	+14·10	4·55	Rawalpindi.
127	12	75	84	25	13	14	7	8	3·6	3·6	0	62	+7	·449	+·051	3·3	+1·1	38	23·2	+14·8	27·60	14·44	+13·16	2·16	Khushab.
72	4	51	43	56	25	64	10	34	2·6			71		·537		3·7		25	19·5	+5·5	24·73	12·66	+12·07	3·70	Lyallpur.
64	26	49	59	51	48	36	14	18	4·4	4·3	+0·1	59	+4	·474	−·001	2·4	+0·2	28	18·2	+9·8	18·11	10·46	+ 7·65	3·15	Montgomery.
138	40	52	9	43	19	41	4	13	3·7	1·5	+0·2	64	+4	·563	+·048	2·1	+0·4	18	13·2	+5·8	11·97	6·73	+ 5·24	2·02	Multan. (*a*)
																									VII.—North-West Frontier Province.
200	33	15	5	7	52	11	3	39	1·5	2·4	−0·9	71	+8	·496	+·041	3·6	+0·6	49	25·1	+23·9	22·01	13·29	+ 8·72	1·44	Peshawar.
170	34	64	7	35	3	8	10	34	1·1	1·3	−0·2	70	+6	·553	+·042	2·1	+0·1	27	16·5	+10·5	12·09	9·37	+ 2·72	2·87	Dera Ismail Khan.
																									VIII.—Sind.
189	8	17	42	70	22	3	2	12	2·5	2·5	0	67	+12	·649	+·141	1·8	−0·2	10	7·6	+2·4	6·78	3·65	+ 3·13	1·77	Jacobabad.
7	77	14	6	4	113	97	11	36	5·4	8·1	−2·7	65	+7	·567	+·068	1·6	−1·1	10	9·6	+0·4	4·09	7·11	− 3·02	0·80	Hyderabad.
28	39	73	9	1	4	63	125	23	8·7	9·2	−0·5	73	−3	·694	+·016	3·8	+0·2	14	9·2	+4·8	9·34	7·78	+ 1·56	1·51	Karachi.
																									IX.—Rajputana.
77	7	20	37	41	44	66	56	17	4·6	4·3	+0·3	49	−4	·457	−·042	2·0	−0·6	18	19·4	−1·4	14·30	11·49	+ 2·81	2·04	Bikaner.
60	13	101	12	6	25	118	23	2	3·3			47	−1	·454		2·9		22	18·5	+3·5	10·12	13·34	− 3·22	2·50	Jodhpur.
88	32	64	50	7	3	13	57	51	3·6	3·2	+0·4	52	−6	·464	−·030	2·9	−0·3	32	36·5	−3·5	24·84	24·07	+ 0·77	2·36	Jaipur.
161	8	25	2	11	7	61	61	29	4·2	3·6	+0·6	61	−2	·477	−·025	2·2	−0·5	33	30·1	+2·9	19·67	21·00	− 1·42	3·00	Ajmer.
114	16	30	8	17	8	40	56	76	2·5			48	−1	·479		2·9		35	35·0	0	25·53	28·12	− 2·59	2·32	Kotah.
																									X.—Bombay.
13	30	102	41	15	30	78	39	27	6·7	7·5	−0·8	53	+ 2	·560	+·036	3·1	−0·3	31	28·3	+2·7	26·81	24·10	+ 2·71	6·60	Deesa.
70	37	19	4	4	11	48	113	48	5·6	8·1	−2·5	68	+ 4	·639	+·029	3·4	+0·5	19	16·9	+2·1	12·42	14·15	−1·73	2·68	Bhuj. (*d*)
41	13	41	49	4	36	81	86	14	8·6			74		·720		2·3		28	20·8	+7·2	15·30	19·23	−3·93	1·43	Jamnagar.
7	63	57	14	4	13	70	91	56	8·9			75	− 2	·722		3·7		21	16·9	+4·1	17·68	14·32	+ 3·30	4·36	Dwarka. (*c*)
46	33	37	19	11	26	90	73	31	7·0	6·0	+0·4	70	+ 3	·643	+·019	5·1	+2·1	42	30·9	+11·1	34·89	26·54	+8·35	4·49	Rajkot.
46	27	32	3	4	22	61	58	60	7·3	6·1	+1·2	73	+ 2	·674	+·008	3·5	−0·4	37	24·2	+12·8	27·28	17·95	+9·33	5·41	Veraval. (*c*)
93	22	5	2	3	7	84	64	86	3·5	7·3	−3·8	67	− 2	·640	−·019	3·9	+0·6	42	29·8	+12·2	39·14	20·66	+18·48	4·11	Bhavnagar Para.
56	54	41	34	20	45	66	29	20	4·3	5·5	−1·2	74	+ 8	·704	+ ·024?	3·6	+0·2	56	46·1	+9·9	58·39	41·12	+17·27	5·73	Surat.
49	21	90	13	8	12	82	28	57	3·7	3·6	+0·1	62	+ 2	·538	+·016	3·0	−0·6	45	34·1	+10·9	40·67	29·62	+11·05	6·82	Ahmadabad.
3	28	83	31	25	21	40	67	23	6·6	8·6	−2·0	78	0	·768	−·003	4·3	+0·1	79	73·3	+5·7	81·62	71·68	+9·94	7·01	Bombay.
15	48	40	64	27	19	42	43	28	5·1	6·2	−0·1	70	− 2	·705	−·022	4·7	+0·8	95	92·7	+2·3	124·33	101·22	+23·11	7·36	Ratnagiri

* Mean of 7 months.

(*a*) Wind observations for 364 days.
(*b*) " " " 361 "
(*c*) " " " 363 "
(*d*) " " " 364 "

TABLE

(2) *Abstract of observations taken at 8 hrs. at 223*

Number of sub-division	Station	Elevation of barometer above sea-level, in feet.	Pressure, 8 hrs., in inches.							Temperature of air.										
			Mean 8 hr. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea level and to constant gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of 8 yrs.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	X.—Bombay— *concld.*																				
	Marmagao	69	29·867	+·006	29·861	30·124	29·619	·505	·177	78·7	85·8	−0·5	74·7	−0·4	80·2	−0·6	11·1	94·2	65·0	29·2	17·9
	Karwar	44	29·890	+·020	29·878	30·146	29·674	·472	·172	78·7	85·8	−0·4	72·6	−0·1	79·2	−0·3	13·2	93·4	59·2	34·4	22·0
26	Malegaon	1,430	28·474	+·017	29·861	28·849	28·076	·773	·215	74·5	92·5	+1·0	55·8	+0·7	79·2	+0·6	26·7	112·7	39·2	73·4	40·5
	Ahmadnagar	2,154	27·768	+·014	29·847	28·068	27·429	·639	·194	73·6	89·9	+1·1	64·3	+0·8	77·1	+1·0	25·6	108·3	41·0	67·3	38·1
	Poona	1,849	28·071	+·009	29·870	28·365	27·742	·623	·192	71·7	89·1	−0·3	65·0	+0·2	77·1	0	24·1	107·4	46·5	60·9	35·7
	Sholapur	1,890	28·316	+·007	29·840	28·612	27·986	·626	·195	75·9	92·6	−0·4	60·0	+1·0	80·8	+0·3	23·7	110·4	48·8	61·6	35·3
	Bijapur	*1,949*	27·967	+·043	29·845	28·243	27·687	·556	·193	74·8	98·6	+0·7	68·2	+0·3	79·4	+0·7	22·6	113·5	46·6	66·9	33·9
	Belgaum	2,562	27·389	+·016	29·867	27·627	27·126	·471	·160	70·9	84·3	−0·1	63·9	−0·1	74·1	−0·1	20·4	102·5	50·5	51·8	31·0
	XI.—Central India.																				
20	Neemuch	1,626	28·249	+·011	29·834	28·059	27·859	·751	·262	73·0	88·8	−0·5	65·3	+0·7	77·0	+0·3	23·5	125·2	36·8	78·4	37·9
	Indore	1,823	28·067	+·025	29·841	28·397	27·655	·742	·243	73·8	88·9	+0·9	64·9	+1·2	76·9	+1·1	24·0	111·1	39·8	71·3	37·1
21	Nowgong	754	29·098	+·013	29·832	29·518	28·670	·848	·258	73·8	89·9	+0·2	66·2	+0·6	78·1	+0·4	23·7	116·0	39·0	77·0	39·6
	Sutna	1,041	28·800	+·011	29·813	29·205	28·383	·822	·253	73·2	88·0	−0·1	60·4	+0·3	77·2	+0·3	21·6	111·8	40·0	71·8	36·9
	XII.—Central Provinces.																				
22	Buldana	2,134	27·771		29·828	28·082	27·355	·728	·221	75·2	87·6		68·2		77·9		19·5	107·1	47·6	59·5	31·6
	Akola	925	28·965	+·018	29·847	29·333	28·484	·849	·240	76·1	93·8	+0·7	68·0	+0·3	80·8	+0·8	25·6	115·1	42·3	72·8	39·4
	Amraoti	1,215	28·665	+·018	29·834	29·031	28·194	·840	·239	76·6	92·0	0	69·9	+1·0	81·0	+0·6	22·1	115·1	46·5	68·6	36·2
23	Khandwa	1,044	28·841	+·019	29·849	29·199	28·375	·824	·250	74·1	92·1	+0·3	67·6	+0·7	79·8	+0·5	24·5	114·1	38·7	75·4	38·1
	Hoshangabad	1,006	28·876	+·016	29·846	29·244	28·441	·803	·257	73·7	91·0	+0·6	67·3	+0·3	79·1	+0·4	23·8	116·5	39·2	77·3	37·9
	Saugor	1,937	28·056	+·013	29·813	28·499	27·643	·766	·246	73·8	88·6	+0·6	67·1	+0·9	77·8	+0·8	21·6	114·4	45·8	68·6	36·2
	Jubbulpore	1,327	28·533	+·016	29·827	28·913	28·099	·813	·251	74·7	88·8	+0·3	66·6	+1·1	77·2	+0·7	23·2	113·5	37·5	76·0	36·9
	Seoni	2,033	27·853	+·024	29·830	29·201	27·449	·752	·243	73·3	87·1	−0·7	64·9	0	76·0	−0·3	22·2	110·8	42·8	68·0	35·3
	Nagpur	1,017	28·859	+·024	29·833	29·234	28·407	·827	·255	75·6	91·8	−0·3	68·6	−0·3	80·2	−0·3	23·2	116·6	45·1	71·5	37·1
24	Pendra	2,040	27·830	+·016*	29·808	28·189	27·417	·772	·246	72·8	86·5		60·0		76·3		20·5	107·8	44·1	63·7	33·4
	Raipur	970	28·892	+·017	29·822	29·292	28·462	·830	·267	74·2	90·1	−0·4	69·3	+0·1	79·7	−0·2	20·9	113·1	48·1	65·0	33·9
	Chanda	634	29·237	+·000	29·824	29·609	28·780	·829	·250	76·0	92·1	−0·8	69·4	−0·2	80·3	−0·5	23·7	116·5	41·0	75·5	38·9
	Jagdalpur	1,813	28·075		29·831	28·412	27·549	·863	·254	73·2	87·5		65·1		76·3		22·5	106·4	43·1	64·3	35·5
	XIII.—Hyderabad.																				
27	Aurangabad	1,905	28·015	−·003	29·854	28·325	27·636	·689	·204	75·2	90·0	−1·0	66·6	+1·0	78·3	0	23·4	109·4	43·9	65·5	35·4
	Nizamabad	1,249	28·648	+·025†	29·845	28·986	28·201	·785	·225	76·6	92·5	+1·1	63·9	+0·5	80·7	+0·7	23·5	114·7	43·7	71·0	37·6
	Bidar	*2,165*								77·2	89·5		66·6		79·1		20·8	108·3	54·4	53·9	31·4
28	Gulbarga	1,503	28·397	+·003	29·841	28·704	28·050	·654	·203	76·9	92·9	+0·5	60·4	+0·6	81·1	+0·5	23·5	111·2	46·3	64·9	35·1
	Raichur	*1,811*	28·610	+·034	29·862	28·909	28·274	·635	·202	77·9	93·0	+0·9	72·0	+0·4	82·5	+0·7	21·0	111·2	54·1	57·1	32·2
	Hyderabad (Deccan)	1,738	28·166	+·017	29·841	28·473	27·758	·715	·221	74·8	89·6	−1·0	69·6	+1·2	79·6	+0·1	20·0	108·1	49·3	58·9	33·1
	Ha'amkonda	877	29·019	+·019	29·845	29·363	28·573	·791	·229	76·0	91·5	−0·4	72·0	+0·1	81·8	−0·1	19·5	111·2	53·0	59·2	32·5

N. B.—Elevations in italics indicate barometrical determinations.

* Mean of 6 months.
† „ „ 5 „

B.—contd.

stations in India, etc., in the year 1914.

Wind direction. Number of winds from									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.						Station.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									X.—Bombay—*contd.*
19	30	47	103	35	9	24	78	30	6·8	6·7	+0·1	84	+ 1	·817	+·002	5·6	+1·8	102	94·3	+ 7·7	115·40	93·85	+21·55	6·30	Marmagao.
131	58	63	11	2	29	36	2	33	3·0	3·0	0	84	+ 1	·765	+·021	4·4	+0·6	108	103·7	+ 4·3	152·74	122·45	+30·29	5·27	Karwar.
101	7	8	4	2	12	161	46	24	6·7	6·5	+0·2	59	— 4	·519	—·040	3·5	0	43	35·0	+ 8·0	30·31	22·71	+ 7·60	4·37	Malegaon.
29	27	8	4	10	35	50	66	120	5·4	8·3	—2·9	55	—12	·467	—·097	3·2	—0·1	36	35·8	+ 0·2	19·58	22·29	— 2·71	4·07	Ahmadnagar.‡
55	1	24	11	24	8	23	100	58	7·5	7·6	—0·1	72	+ 9	·568	+·061	3·2	—0·7	50	46·8	+ 3·2	30·84	27·23	+ 3·61	2·13	Poona, §
26	15	19	22	79	11	59	43	92	7·7	7·1	+0·6	57	+ 2	·516	+·013	4·0	0	44	42·1	+ 1·9	28·14	29·50	— 1·36	2·63	Sholapur.
30	24	15	30	40	28	62	87	49	6·7	4·7	+2·0	63	— 7	·547	—·057	4·0	+0·1	30	36·5	— 6·5	17·90	20·93	— 3·03	2·77	Bijapur.
109	3	7	43	21	3	33	81	5	9·2*	11·0	—1·8	73	+ 3	·549	+·012	4·7	+0·4	90	81·0	+ 9·0	86·88	49·67	+37·21	11·09	Belgaum.
																									XI.—Central India.
125	5	13	80	1	7	34	99	2	7·6	6·4	+1·2	56	— 2	·482	—·020	2·7	+0·1	46	35·4	+10·6	30·16	28·37	+ 1·79	2·65	Neemuch.
153	15	40	11	14	3	4	62	60	2·3	3·0	—0·7	60	— 3	·517	—·006	4·0	+0·6	61	44·9	+16·1	28·70	32·70	— 4·00	1·89	Indore.
89	20	28	53	12	32	34	86	11	2·0	1·0	+0·4	60	— 6	·519	—·026	3·4	+0·2	43	43·3	— 0·3	39·31	43·35	— 4·04	4·95	Nowgong.
208	5	2	25	5	25	17	72	5	2·3	4·4	—2·1	·67†	+ 6	·568†	+·050	3·6	+0·7	61	54·9	+ 6·1	55·02	44·44	+10·58	6·20	Sutna.
																									XII.—Central Provinces.
0	22	12	25	31	50	39	94	92	4·5	5·7	—1·2	54		·472		3·0		64	52·3	+11·7	46·25	35·05	+11·20	5·28	Buldana.
38	5	23	45	29	17	41	103	64	4·4	4·4	0	54	— 4	·495	—·018	4·9	+1·5	45	46·2	— 1·2	28·84	32·79	— 3·95	3·68	Akola.
114	4	38	51	12	3	24	71	48	3·4	4·2	—0·8	56	— 3	·509	—·028	3·3	—0·2	66	47·8	+18·2	33·86	33·84	+ 0·02	4·50	Amraoti.
251	3	6	0	0	0	29	50	26	4·2	4·4	—0·2	58	— 1	·506	+·005	3·3	+0·3	55	41·0	+14·0	33·05	29·91	+ 3·14	3·10	Khandwa.
72	1	95	21	32	3	82	42	27	2·7	2·3	+0·4	60	— 6	·516	—·035	3·3	—0·2	58	55·6	+ 2·4	46·99	49·10	— 2·11	5·37	Hoshangabad.
21	6	22	40	49	43	37	123	15	6·0	3·2	+2·8	51	— 8	·437	—·058	3·6	—0·6	45	56·3	—11·3	34·17	46·25	—12·08	3·30	Saugor.
76	19	11	26	34	36	40	50	23	1·7	2·3	—0·6	66	— 1	·536	+·001	3·4	0	61	64·1	— 3·1	54·29	55·51	— 1·21	3·22	Jubbulpore.
83	55	37	8	16	20	40	55	33	3·7	2·7	+1·0	57	— 7	·471	—·059	3·8	+0·3	81	70·4	+10·6	54·12	52·63	+ 1·49	3·96	Seoni.
54	67	20	30	14	7	27	66	60	3·6	4·1	—0·5	59	— 2	·527	—·026	3·9	0	70	62·9	+ 7·1	46·94	49·16	— 2·22	2·87	Nagpur.
144	42	21	5	32	43	32	14	42	3·5			59		·489		3·2		69	74·4	— 5·4	47·44	51·50	— 4·06	4·60	Pendra.
28	29	25	33	25	47	104	42	32	3·6	4·3	—0·7	57	+ 4	·585	+·020	2·6	—1·5	72	63·5	+8·5	46·07	49·99	— 3·92	2·50	Raipur.
110	9	11	22	38	23	39	66	47	3·3	2·7	+0·6	68	+ 3	·617	+·028	3·9	+0·3	69	63·7	+ 4·3	42·20	53·43	—11·23	2·37	Chanda.
46	25	15	22	33	46	76	60	42	1·7			74		·617		2·8		87			68·62			3·90	Jagdalpur.
																									XIII.—Hyderabad.
22	34	34	65	38	8	40	35	49	8·5			56	+ 1	·491		4·3		48	44·3	+ 3·7	28·26	29·37	— 0·11	4·10	Aurangabad.
77	32	20	10	31	34	83	40	38	3·4			60	— 7	·547		4·7		65	54·9	+10·1	55·15	40·87	+14·28	9·70	Nizamabad.
69	8	33	8	77	5	84	10	71	5·2			58		·538		6·9		51	53·7	+ 7·3	50·22	37·55	+12·67	5·20	Bidar.
8	22	48	60	24	25	44	99	35	5·8	7·4	—1·6	61	— 3	·540	—·031	2·8	—1·0	45	46·4	— 3·4	24·93	33·14	— 8·21	2·46	Gulbarga.
1	10	34	36	65	61	77	38	43	8·0	7·1	+0·9	66	+ 1	·625	+·020	2·7	—1·0	49	44·7	+ 4·3	32·57	28·62	+ 3·95	4·24	Raichur.
164	5	29	4	7	6	41	86	23	4·5	4·0	+0·5	71	+ 1	·609	—·0 3	5·0	+1·4	67	49·4	+ 7·6	42·03	31·32	+10·71	4·63	Hyderabad (Deccan).
19	24	4	5	105	93	26	60	39	5·5			65	— 2	·625		4·5		62	50·5	+11·5	52·22	34·75	+17·57	7·73	Haramkond.

* Mean of 8 months.
† „ „ 11 „
‡ Wind observations for 375 days.
§ „ „ 264 „

TABLE

(2) *Abstract of observations taken at 8 hrs. at 223*

Number of sub-division.	Station.	Elevation of barometer above sea-level, in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level at 0° and to constant gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean daily maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4.	5.	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	XIV.—Mysore.																				
29	Chitaldrug	2,405	27·544	+·021	29·857	27·731	27·301	·430	·167	73·5	87·7	+1·2	67·7	+0·5	77·7	+0·8	20·0	102·4	53·8	46·6	29·1
	Hassan	3,149	26·850	+·029	29·873	27·059	26·641	·415	·149	70·0	83·8	+1·1	63·5	+1·3	73·6	+1·2	20·3	98·4	50·1	48·3	29·8
	Bangalore	3,021	26·969	+·021	29·967	27·185	26·742	·443	·159	70·6	85·9	+1·8	64·8	+0·7	75·4	+1·3	21·2	98·3	51·8	46·5	31·3
	Mysore	2,518	27·454	+·016	29·813	27·671	27·256	·415	·151	73·2	86·9	+0·5	65·6	+0·9	76·7	+0·7	20·4	99·8	53·7	46·1	29·4
	XV.—Madras.																				
30	Mangalore	72	29·878	+·013	29·931	30·103	29·702	·401	·151	79·5	87·6	—0·4	74·4	+1·3	81·0	+0·4	13·3	94·8	64·0	30·8	21·8
	Calicut	27	29·919	+·008	29·975	30·130	29·755	·381	·142	78·4	86·3	—0·5	75·1	+1·0	80·7	+0·2	11·2	92·9	66·7	26·2	18·4
	Cochin	9	29·945	+·014	29·992	30·146	29·824	·322	·124	79·7	88·4	+0·9	75·5	+0·6	81·9	+0·3	12·9	94·7	67·7	27·0	19·3
	Trivandrum	198	29·759	+·022	29·873	29·936	29·619	·329	·130	78·5	88·1	+1·2	75·4	+1·8	80·3	+1·5	9·7	92·0	68·0	24·0	16·8
31	Pamban	37	29·893	+·015	29·958	30·109	29·710	·399	·148	82·1	87·4	+0·1	77·5	—0·4	82·5	+0·1	9·9	95·2	71·3	23·9	14·2
	Madura	447	29·497	+·033	29·576	29·742	29·299	·443	·171	81·6	94·1	+0·1	75·9	+2·1	85·0	+1·1	18·1	106·6	62·8	43·8	27·9
	Pudukkottai	318	29·623		29·872	29·874	29·413	·461	·182	80·5	93·3		74·9		84·1		18·3	107·8	62·0	44·9	29·1
	Negapatam	31	29·896	+·015	29·955	30·166	29·675	·491	·177	81·5	90·3	+0·5	76·1	+0·2	83·2	+0·3	14·2	105·5	65·6	39·9	22·5
	Trichinopoly	255	29·687	+·023	29·876	29·939	29·468	·471	·178	81·1	94·3	0	74·8	+0·8	84·6	+0·4	19·4	107·6	60·5	47·1	30·1
	Coimbatore	1,341	28·605	+·022	28·864	28·844	28·405	·439	·163	76·0	90·3	+0·1	70·1	+0·5	80·2	+0·3	20·3	103·2	56·0	47·2	29·9
	Salem	913	29·014	+·024	29·331	29·378	28·812	·466	·173	78·3	93·7	+0·7	72·1	+1·4	82·9	+1·1	21·6	106·3	56·5	49·8	31·6
	Cuddalore	37	29·897	+·027	29·964	30·172	29·660	·512	·194	79·9	89·8	—0·7	75·2	+1·1	82·5	+0·2	14·5	107·1	63·4	43·7	23·8
	Vellore	707	29·221		29·871	29·500	29·252	·548	·187	78·1	92·4		73·4		82·4		20·0	107·1	53·0	52·1	32·0
	Madras	22	29·902	+·014	29·955	30·163	29·628	·535	·204	81·0	91·1	+0·1	75·3	+0·6	83·2	+0·4	15·7	110·1	60·7	49·4	26·5
32	Cuddapah	423	29·401	+·015	29·857	29·905	29·183	·622	·209	80·3	98·1	—0·4	72·7	—1·7	83·9	—1·1	22·4	110·2	51·0	59·2	34·3
	Bellary	1,475	28·499	+·011	28·851	28·760	28·153	·607	·197	77·1	94·6	+1·6	71·6	+1·1	83·1	+1·3	23·0	110·0	51·3	58·3	33·8
	Kurnool	923	29·003	+·030	29·372	29·315	28·665	·650	·206	76·8	93·2	—0·5	71·5	+0·9	82·4	+0·2	21·8	111·0	46·4	64·6	33·8
33	Nellore	66	29·843	+·019	29·893	30·170	29·529	·641	·221	80·5	93·5	—0·8	74·3	—0·8	83·9	—0·8	19·2	112·0	53·1	53·9	30·6
	Masulipatam	15	29·897	+·025	29·947	30·243	29·524	·719	·239	79·9	90·8	+0·3	74·1	—0·3	82·5	0	16·7	112·2	59·2	53·0	28·6
	Cocanada	26	29·864	+·028	29·947	30·244	29·429	·815	·252	79·6	89·1	—0·3	74·3	—0·5	81·7	—0·4	14·7	106·7	59·5	47·2	26·9
	Waltair (Vizagapatam)	226	29·673	+·029	29·941	30·056	29·157	·899	·275	79·3	86·7		74·6		80·7		12·1	102·4	61·7	40·7	23·4
	Calingapatam	19	29·871		29·929	30·250	29·354	·926	·284	77·8	89·0		73·0		81·0		16·1	98·9	54·1	44·8	26·7
	Gopalpur	72	29·826	+·027	29·919	30·260	29·364	·906	·305	77·5	89·3	+0·4	73·1	—0·2	79·7	+0·1	13·2	95·0	54·7	41·2	22·8
	Bay Islands.																				
1	P. V. Fraser*	8	29·319†		29·712	30·271	29·382	·889	·289	80·1											
	Port Blair	18	29·269	+·014	29·656	30·007	29·551	·546	·193	80·8	86·9	—0·4	76·0	—0·1	81·9	—0·3	10·0	96·8	70·6	25·8	17·1
	Table Island	96	29·129		29·843	30·099	29·441	·658	·230	80·5	84·9		77·1		81·0		7·8	95·0	69·4	30·6	15·7
	Kashmir.																				
13	Muzaffarabad‡		27·501			27·900	27·026	·874	·300	58·2	74·6		50·5		62·5		24·2	102·1	29·1	73·0	44·0
	Srinagar	5,204	24·895	+·007	24·966	25·245	24·464	·781	·326	51·8	65·7	—0·3	46·5	+2·5	56·1	+1·1	19·2	88·2	21·7	73·5	37·7
	Gulmarg§	8,869	21·893	—·011	21·770	21·923	21·600	·373	·235	60·4	69·5	+2·0	48·9	+2·3	58·7	+2·1	16·6	80·4	33·6	46·8	37·4
	Dras	10,039	20·821	+·020	20·789	21·067	20·438	·629	·383	38·8	45·8		20·5		33·2		12·3	84·2	—31·7	115·9	51·4

N. B.—Elevations in italics indicate barometrical determinations.

NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 11 months.
† " " 9 "
‡ " " 10 "
§ " " 4 "

B.—contd.

stations in India, etc., in the year 1914.

Wind direction, Number of winds from									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.					Highest rainfall during year.	Station.
Calms.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.		
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									XIV.—Mysore.
61	0	10	55	52	3	79	86	29	5·1	5·9	—0·8	67	—3	·548	—·028	4·6	—0·5	37	48·3	—11·3	17·35	25·34	—7·99	1·70	Chitaldrug.
29	6	22	66	41	7	52	106	36	5·2	2·6	+2·6	77	+1	·565	—·009	5·1	—0·5	65	66·7	—1·7	31·53	35·91	—4·38	3·21	Hassan.
5	1	23	103	32	12	78	95	16	6·1	4·6	+1·5	76	—2	·572	—·005	4·8	—0·2	53	59·2	—6·2	28·94	35·51	—6·57	3·42	Bangalore.
39	17	50	43	13	15	80	81	21	6·0	7·3	—1·3	73	—3	·598	—·003	5·1	—0·2	46	55·6	—9·6	21·12	31·30	—10·18	2·07	Mysore.
																									XV.—Madras.
21	32	42	103	38	4	7	29	30	4·2	2·1	+2·1	78	—3	·779	—·010	5·2	+0·1	120	116·4	+3·6	147·50	127·08	+20·42	5·43	Mangalore.
119	21	19	63	33	10	7	8	94	3·5	6·3	—2·8	86	+3	·833	+·031	5·1	+0·3	124	114·0	+10·0	121·14	117·00	+4·14	2·87	Calicut.
29	12	113	145	32	7	6	13	8	4·7	4·0	+0·7	79	—2	·809	—·003	4·7	0	135	128·5	+6·5	111·75	113·83	—2·08	4·14	Cochin.
77	94	46	25	10	2	4	18	88	4·0	4·4	—0·4	81	—1	·787	—·007	6·4	+0·9	112	94·0	+18·0	63·57	63·33	+0·24	3·17	Trivandrum.*
71	90	51	16	17	61	60	15	14	6·4	7·5	—1·1	80	0	·868	...	3·8	...	45	46·2	—1·2	42·63	37·19	+5·44	4·85	Pamban.
10	76	84	35	10	0	16	58	67	7·1	3·1	+4·0	73	+3	·779	+·043	6·6	+2·4	49	49·0	0	27·10	34·30	—7·20	2·40	Madura.
71	77	61	2	15	10	43	26	49	5·9	...	...	74	...	·755	...	5·6	...	57	54·6	+2·4	38·96	33·70	+5·26	3·73	Pudukkottai.*
2	11	54	7	36	7	93	75	80	2·4	5·0	+2·4	78	+2	·838	+·030	4·0	—0·5	60	55·8	+4·2	54·89	53·56	+1·33	4·20	Negapatam.
52	48	49	7	11	11	60	88	39	4·4	4·2	+0·2	69	—3	·721	—·010	4·3	—0·6	43	46·1	—3·1	20·14	32·85	—12·72	3·20	Trichinopoly
87	27	67	19	18	52	70	17	2	5·7	3·1	+2·6	75	—8	·675	—·058	4·1	—0·6	30	45·0	—15·0	15·71	22·10	—6·39	2·17	Coimbatore.
86	18	23	69	2	27	39	200	6	4·3	3·1	+1·2	76	0	·731	+·002	4·8	+0·4	62	54·4	—2·4	35·04	40·30	—4·26	3·00	Salem.
81	27	3	1	18	31	101	13	90	5·9	1·8	+4·1	78	—5	·792	—·066	5·1	—0·1	74	56·2	+17·8	72·81	50·89	+21·92	4·71	Cuddalore.
175	1	3	4	22	3	1	135	20	2·6	...	...	76	...	·731	...	3·9	...	63	56·7	+6·3	35·45	45·33	—9·88	2·61	Vellore.*
18	39	21	2	7	63	88	64	63	4·7	5·0	—0·3	77	+1	·812	+·007	4·6	—0·5	62	57·9	+4·1	56·63	49·47	+7·16.	5·86	Madras.
16	28	25	31	59	40	22	88	56	...	...	...	69	+1	·709	+·003	3·9	—0·4	48	46·0	+2·0	25·87	31·63	—5·76	2·18	Cuddapah.
79	12	4	26	43	28	35	98	46	4·3	4·8	—0·5	62	0	·581	+·001	4·2	—0·5	29	35·5	—6·5	19·58	19·98	—0·40	3·29	Bellary.
85	2	12	37	27	12	63	60	58	5·5	...	...	67	+1	·628	+·008	4·6	+0·8	48	47·5	+0·5	26·08	26·92	—0·84	1·68	Kurnool†
74	30	7	9	7	53	34	63	88	4·8	4·9	—0·1	75	—1	·764	—·045	5·0	0	49	42·0	+7·0	32·86	35·97	—3·11	2·74	Nellore.
27	76	36	13	29	32	29	57	66	5·3	4·8	+0·5	76	—6	·792	—·064?	4·2	—0·6	50	53·1	—3·1	29·66	40·00	—10·34	2·25	Masulipatam.
59	49	58	8	16	4	60	79	32	4·9	5·8	—0·9	78	+3	·798	+·038	5·7	+1·0	50	52·9	—2·9	29·95	38·96	—9·01	4·32	Cocanada.
16	25	63	8	1	3	184	39	23	5·2	...	...	73	0	·741	—·026	5·4	+0·6	46	50·0	—4·0	29·61	37·26	+2·35	5·85	Waltair (Vizagapatam).‡
25	38	14	3	4	10	72	94	90	6·6	...	...	80	...	·774	...	2·0	...	31	38·2	+2·8	66·12	36·49	+29·63	12·10	Calingapatam.
17	98	6	2	4	66	71	6	95	7·2	8·6	—1·4	79	—2	·763	—·021	4·0	—0·6	53	47·0	+6·0	53·59	44·87	+8·72	5·76	Gopalpur.
																									Bay Islands.
26	43	38	10	9	41	107	34	22	...	...	...	80	...	·836	...	5·6	...	95	...	...	19·82	...	...	3·11	P. W. Fraser.§
86	38	47	29	13	20	45	51	37	6·7	5·5	+1·2	82	—4	·860	—·035	6·5	—0·5	141	140·0	+1·0	116·43	118·49	—2·06	5·85	Port Blair.
29	69	27	26	9	26	75	47	37	7·8	...	...	82	...	·854	...	6·3	...	100	100·4	—0·4	69·34	79·07	—9·73	6·30	Table Island.
																									Kashmir.
73	20	10	5	3	37	21	5	4	0·5	...	...	73	...	·379	...	3·1	...	31	...	...	60·27¶	...	...	3·80	Muzaffarabad.
94	25	17	11	69	46	19	19	65	2·5	2·6	—0·1	80	—6	·347	—·003	5·3	+0·7	68	59·7	+8·3	30·85	27·24	+3·61	2·11	Srinagar.
40	5	25	9	6	0	19	4	4	3·5	...	...	75	...	·297	...	3·8	...	33	35·1	—2·1	15·23	16·35	—1·13	2·78	Gulmarg.
31	2	0	2	0	0	9	26	15	2·4	...	...	68	—8	·205	...	4·2	...	51	57·1	—6·1	19·64	21·78	—2·14	3·11	Dras.

* Wind observations for 364 days.
† " " " 356 "
‡ " " " 363 "
§ " " " 330 "
" " " 288 "
‡‡ Mean of 11 months.

¶ Rainfall for June wanting.
** " from 28th May to 30th September.
†† Normal rainfall from June to September.
§§ Mean of 8 months.

TABLE

(2) *Abstract of observations taken at 8 hrs. at 223*

Number of sub-division.	Station.	Elevation of bar-ometers above sea-level, in feet.	Pressure, 8 hrs., in inches.							Temperature of air.										
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Kashmir—*concld.*																				
	Leh	*11,503*	19·723	+·026	19·691	19·984	19·340	·644	·370	37·5	54·5	—0·9	29·8	0	42·2	—0·4	24·7	80·3	—1·2	87·5	42·4
	Skardu	7,505	22·889	+·010	22·859	23·284	22·515	·769	·435	47·6	62·7	+0·5	38·6	—1·8	50·7	—0·6	24·1	100·8	—3·7	104·5	44·8
	Gilgit	4,890	25·175	+·015*	25·148	25·628	24·656	·972	·447	59·4	73·3	+0·5	52·4	—0·9	62·9	—0·2	20·8	102·7	23·2	80·5	40·0
	Baluchistan.																				
15	Fort Sandeman	4,614	25·286	...	25·355	25·683	25·003	·680	·274	58·4	80·4	...	53·6	...	67·0	...	26·8	107·5	24·3	83·2	45·8
	Quetta	5,502	24·629	+·008	24·589	24·892	24·295	·597	·247	51·8	73·8	+0·4	45·4	+0·9	59·6	+0·6	28·5	102·3	16·1	86·2	47·2
	Chaman	4,311	25·678	+·006	25·640	25·985	25·270	·715	·286	62·0	78·4	—0·5	55·5	—0·6	66·9	—0·6	22·9	109·8	22·1	87·7	44·1
	Kalat	6,630	23·734	...	23·696	23·959	23·444	·515	·243	48·1	71·4	...	42·5	...	56·9	...	28·8	99·8	5·4	94·4	49·4
	Dalbandin	2,272	27·063†	...	27·031†	27·459	26·657	·802	·269	62·4	87·8	...	55·6	...	71·7	...	32·1	116·0	22·0	94·0	52·8
	Pasni	...	29·875	...	29·835	30·295	29·375	·920	·303	75·3	85·9	...	69·0†	...	77·5†	...	15·8†	107·2	49·1	58·1	31·9†
	Panjgur	...	26·709	...	26·667	27·031	26·327	·704	·248	62·0	85·6	...	58·5	...	72·1	...	27·1	110·4	28·4	82·0	44·8
	Robat	...	26·833	...	26·791	27·221	26·412	·809	·338	66·0	87·8	...	61·9	...	74·9	...	25·9	118·3	28·9	89·4	45·5
	Hill stations excluding Kashmir and Baluchistan.																				
	Para Chinar	6,000	24·429	—·012*	24·406	24·708	24·110	·598	·285	57·1	70·0	...	46·2	...	59·1	...	21·8	99·0	18·9	80·1	41·3
	Cherat	*4,256*	25·703	+·035	25·671	26·038	25·300	·738	·298	60·4	69·8	—4·0	55·1	—1·6	62·5	—2·8	14·6	104·9	29·2	75·7	36·1
	Drosh	...	25·110‡	...	...	25·450	24·625	·825	·321	54·9	71·8	...	52·1	...	61·9	...	19·7	105·5	27·8	77·7	39·0
	Murree	6,333	23·843	+·014	23·811	24·104	23·548	·556	·274	54·0	62·8†	—4·1†	50·4	—0·4	57·2†	—2·2†	11·2†	91·6	24·0	67·6	32·8†
	Simla	7,232	23·111	+·028	23·073	23·390	22·837	·553	·241	53·4	59·7	—1·1	49·5	—0·4	54·6	—0·8	10·2	79·5	26·0	53·5	25·6
	Sarai ¶	...	23·152	...	23·144	23·425	22·857	·568	·252	45·9	58·7	...	39·2	...	48·9	...	19·5	80·0	15·9	64·1	34·5
	Kasabagh ‖	...	20·195	...	20·077	20·250	19·876	·374	·234	48·7	53·8	...	44·3	...	49·0	...	9·5	68·6	29·1	39·5	21·5
	Chakrata §	7,022	...	...	...	...	...	...	...	54·2	64·2	—1·4	48·9	—2·3	56·5	—1·9	15·3	77·7	21·7	56·0	30·7
	Mukteswar	7,592	22·817**	+·010**	22·776**	23·071	22·551	·520	·244**	52·3	61·8	—2·4	47·9	—0·5	54·8	—1·5	14·0	79·5	23·0	56·5	30·1
	Darjiling	7,376	22·983	+·023	22·933	23·238	22·735	·503	·209	51·0	59·6	+1·2	47·4	—0·1	53·5	+0·5	12·3	75·4	32·2	43·2	22·8
	Shillong	4,920	25·140	+·005*	25·092	25·384	24·823	·561	·239	61·5	69·7	...	52·9	...	61·3	...	16·8	83·2	34·9	47·3	28·3
	Cherrapunji	4,309	25·694	+·005*	25·645	25·970	25·381	·589	·240	62·2	68·6	...	56·7	...	62·7	...	11·8	83·8	43·4	30·4	23·0
	Maymyo	3,546	26·453	+·027	26·398	26·723	26·157	·566	·221	62·1	75·9	—1·3	55·6	+0·1	65·7	—0·6	20·2	88·8	33·4	55·4	31·2
	Pachmarhi	3,528	26·460	+·023	26·397	26·763	26·065	·698	·226	69·7	80·3	+0·8	61·2	0	70·8	+0·4	19·2	103·2	35·1	68·1	32·5
	Mount Abu	3,945	26·045	+·017	25·995	26·307	25·710	·597	·212	63·4	75·8	—0·3	52·1	+0·1	63·9	—0·1	13·7	97·6	40·4	57·2	27·5
	Mercara	3,781	26·241	+·010	26·174	26·422	26·071	·351	·133	66·0	77·4	+0·6	60·5	—0·9	68·9	0	16·9	91·0	50·0	41·0	25·7
	Ootacamund	7,327	23·062	+·021*	23·018	23·214	22·928	·286	·125	58·0	66·8	...	49·0	...	57·9	...	17·8	76·7	33·2	43·5	29·5
	Kodaikanal	7,688	22·950	+·010	22·785	22·968	22·679	·289	·122	57·4	68·0	+1·3	51·2	+0·1	58·6	+0·7	14·8	76·2	40·7	35·5	24·8
	Extra India.																				
	Singapore (*a*)	10	29·938	...	29·969	30·151	29·800	·350	·149	84·1	88·8	...	75·2	...	82·0	...	13·7	97·0	68·0	29·0	20·5
	Penang (*a*)	17	29·885	...	29·837	29·988	29·769	·219	·157	83·8	89·9	...	73·8	...	81·9	...	16·1	96·0	71·0	25·0	22·1
	Trincomalee	99	29·833	+·003*	29·851	30·029	29·643	·386	·163	78·6	90·8	+2·2‡	76·7	+0·3	83·7	+1·3	14·1	99·2	70·8	28·4	21·7

N. B.—Elevations in italics indicate barometrical determinations.

Note.—The barometric readings are not reduced to sea-level, in the case of hill or plateau-stations, the elevations of which exceed 3,200 feet.

(*a*) 9 hours observations.

‡ Aneroid corrected.

† Mean of 11 months.

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B—contd.

stations in India, etc., in the year 1914.

Wind direction. Number of winds from									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.						Heaviest rainfall during	Station.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.		
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									Kashmir—*concld.*
277	4	13	8	7	41	11	2	2	3·2	1·5	+0·7	53	+ 1	·140	+·009	5·1	+0·3	10	9·6	+0·4	3·84	3·26	+ 0·58	0·75	Leh.
176	15	27	16	4	6	44	58	19	4·2	...	...	67	— 4	·273	...	3·7	...	24	19·0	+5·0	7·09	7·43	— 0·39	0·79	Skardu.
298	0	6	3	8	1	34	12	3	1·0	...	...	59	+ 8	·337	+·068	4·7	—0·1	20	15·9	+4·1	5·20	5·12	+ 0·09	0·50	Gilgit.
																									Baluchistan.
237	11	14	29	14	6	28	21	5	2·2	...	...	57 (a)	...	·359 (a)	...	2·2	...	31	...	...	15·70	...	...	1·72	Fort Sandeman.
289	0	5	6	24	18	11	5	7	1·6	2·1	—0·5	70	+12	·317	+·090	2·4	+0·5	37	24·3	+12·7	13·89	10·02	+3·87	0·95	Quetta.
74	2	8	96	106	37	36	2	4	4·6	5·9	—1·3	55 (a)	+13	·320 (a)	+·053	2·2	+0·2	32	18·6	+13·4	11·45	6·68	+4·77	1·42	Chaman.
265	2	5	6	17	38	22	2	8	4·0	...	...	68	...	·266	...	2·3	...	29	17·8	+11·2	12·00	6·74	+5·26	1·34	Kalat.
121	35	80	29	11	14	25	31	19	3·7	...	...	45	...	·225	...	2·0	...	13	...	...	6·42	...	...	1·61	Dalbandin.
94	23	16	35	11	13	25	99	49	6·0	...	...	80	...	·738	...	4·2	...	12	...	...	14·80	...	...	5·00	Pasni.
98	29	140	50	5	3	18	10	12	4·5	...	...	69	...	·419	...	2·3	...	18	...	...	11·72	...	...	2·54	Panjgur.
53	0	6	33	6	15	64	141	4	4·0	...	...	45	...	·279	...	1·6	...	14	...	...	7·56	...	...	1·09	Robat.‡
																									Hill stations, excluding Kashmir and Baluchistan.
309	5	4	2	7	14	5	10	7	0·8	...	...	63	...	·317	...	2·7	...	80	63·8	+16·2	38·62	27·85	+10·77	2·45	Para Chinar, §
46	173	13	1	27	58	9	7	31	8·1	8·3	—0·2	58	+ 5	·336	+·017	4·3	+1·2	68	41·7	+26·3	42·57	27·48	+20·09	2·98	Cherat.
220	5	19	41	12	15	42	8	0	4·4	...	...	60	...	·289	...	3·9	...	41	40·2	+ 0·8	16·20	18·24	— 0·74	2·55	Drosh.
178	47	4	34	82	8	5	0	7	3·3	5·3	—2·0	62	+ 7	·280	+·017	4·6	+0·8	103	76·3	+26·7	100·82	57·97	+42·85	4·32	Murree.
...	...	...	...	...	...	...	...	...	...	...	...	58	0	·260	0	4·3	+0·1	107	85·1	+21·9	79·09	63·11	+15·98	4·05	Simla.
...	...	...	...	...	...	...	...	...	...	...	...	75	...	·244	...	3·5	...	70	91·0	—21·0	59·43¶	64·55¶	— 5·12	8·26	Sarain.
52	44	9	0	2	20	2	2	8	5·1	...	...	80	...	·281	...	6·0	...	73	63·5	+ 9·5	77·24††	55·00	+22·24	10·35	Kalabagh. **
154	99	9	4	29	11	4	9	3	2·7§§	4·6	—1·9	72	+8	·332	+·041	4·3	+0·9	118	87·5	+30·5	101·68	72·44	+29·24	5·43	Chakrata.
93	10	21	70	29	9	17	108	8	5·4	...	...	64	+3	·278	...	4·6	...	95	79·6	+15·4	74·26	50·90	+23·36	10·02	Mukteswar.
330	0	1	5	0	3	3	13	1	1·3	3·5	—2·2	63	—4	·337	—·020	5·8	—0·2	119	121·3	— 2·3	127·73	121·061	+ 6·73	6·25	Darjiling.
273	0	4	10	6	21	34	12	0	1·6	...	...	71	...	·405	...	4·6	...	106	125·7	—19·7	77·56	84·65	— 7·09	6·68	Shillong.
41	21	71	69	27	37	44	42	7	4·1	...	...	80	...	·462	...	5·5	...	140	161·8	—21·8	362·19	409·90	—47·71	31·05	Cherrapunji.
282	0	2	0	0	0	80	1	9	1·7	...	...	89	+9	·510	...	4·7	...	88	90·8	— 2·6	77·98	56·57	+21·41	5·05	Maymyo.
27	8	25	18	46	28	89	63	61	4·1	4·3	—0·2	64	+4	·457	+·023	3·1	—0·8	85	76·9	+ 8·1	80·70	75·33	+ 5·37	5·06	Pachmarhi.
72	15	65	2	18	0	113	41	30	5·7	5·7	0	56	+1	·390	+·017	3·3	0	59	53·9	+ 5·1	48·66	60·80	—12·14	5·95	Mount Abu.
60	15	33	55	0	6	51	77	18	4·6	4·3	+0·3	84	+1	·531	—·005	5·7	—0·2	121	133·3	—12·3	129·82	126·88	+ 2·94	4·47	Mercara.
64	2	8	83	81	53	29	59	36	3·9	...	...	71	...	·342	...	5·6	...	113	104·7	+ 8·3	47·16	56·20	— 9·04	1·62	Ootacamund.
5	29	60	56	60	15	5	72	63	9·3	...	...	71	+1	·333	...	5·0	...	120	107·7	+12·3	79·66	61·65	+18·01	4·16	Kodaikanal.
																									Extra India.
146	7	57	12	81	22	18	1	21	4·2	...	...	...	...	...	...	6·5	...	98	133·4	—35·4	85·84	93·99	— 8·15	5·32	Singapore.
0	29	78	71	57	25	26	41	38	8·4	...	...	...	...	...	...	...	...	114	132·6	—18·6	89·55	106·41	—16·86	4·25	Penang.
10	4	75	6	6	14	208	34	12	6·3	7·3	—1·0	85	+4	·528	—·036	6·3	+3·0	86	71·8	+14·2	73·25	62·16	+11·09	3·69	Trincomalee. †

(a) Mean of 11 months.

† Wind observations for 364 days.
‡ " " " 327 "
§ " " " 363 "
‖ Rainfall for June and July wanting.

¶ Rainfall from June to October
** Wind observations for 139 days.
†† Rainfall from January to October.
§§ Mean of 9 months.

TABLE

(2) Abstract of observations taken at 8 hrs. at 223

Number of sub-division.	Station.	Elevation of bar-eterm above sea-level, in feet.	Pressure, 8 hrs., in inches.							Temperature of air.										
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure recorded during year.	Lowest pressure recorded during year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Extra India —*contd.*																				
	Colombo	24	29·919	—·001	29·869	30·094	29·788	·306	·139	76·4	87·5	+0·5	74·7	—0·8	81·1	—0·2	12·8	93·1	65·1	28·0	19·7
	Hambantota	64	29·874	...	29·864	30·057	29·723	·324	·145	76·4	87·3	...	75·4	...	81·3	...	11·9	95·1	66·9	28·2	18·7
	Minicoy	7	29·962	...	...	30·140	29·837	·303	·131	...	...	...	...	...	...	...	...	...	...	...	...
	Amini Divi	13	29·939	+·012	29·889	30·141	29·763	·378	·142	82·7	88·3	+2·6	77·2	+0·1	83·0	+1·4	11·7	97·0	66·3	30·7	20·1
	Gyantse	13,120	18·459	...	18·420	18·767	18·183	·584	·310	35·8	57·0	...	21·3	...	39·1	...	35·9	85·0	—15·0	100·0	52·3
	Phari jong *	14,400	...	...	...	...	...	...	...	30·7	46·6	...	10·1†	...	28·4†	...	36·7†	67·0	—17·2	84·2	54·1†
	Gangtok	5,667	24·471	...	24·427	24·736	24·187	·549	·238	58·3	68·3	...	52·3	...	60·3	...	16·0	81·9	36·2	45·7	26·6
	Gartok (c)‡	15,100	...	...	...	...	...	...	...	29·1	48·6	...	21·9	...	35·2	...	26·7	75·4	—29·1	104·5	53·7
	Kashgar (c)	4,255	25·551	...	...	26·100	25·000	1·100	·459	59·6	69·9	+3·7	44·2	+0·7	57·1	+2·2	25·7	102·1	9·3	99·8	46·9
	Kabul‡	...	24·153	...	...	24·460	23·840	·620	·252	52·1	82·0§	+3·6§	45·4§	—1·2§	63·7§	+1·1§	36·6§	107·4	7·2	100·2	56·2§
	Meshed	3,104	26·777	...	29·911	27·165	26·474	·692	·401	54·4	72·3	...	43·5†	—0·4†	60·1†	...	33·0†	104·2	4·9	99·3	52·2†
	Jask	13	29·863	—·033	29·819	30·321	29·343	·978	·305	76·7	87·6	+1·0	74·5	+1·1	81·1	+1·1	13·1	109·3	55·4	53·9	27·5
	Muscat	20	29·368	+·029	29·856	30·356	29·400	·956	·294	80·9	88·6	+5·4	77·2	—0·8	83·2	+1·8	10·7	113·3	59·9	53·4	25·6
	Bahrein	18	29·932*	...	29·903*	30·377	29·465	·912	·269*	77·5	82·7	...	74·4*	...	79·3*	...	9·2*	104·2	51·5	52·7	23·8
	Bushire	14	29·880	+·018	29·855	30·365	29·303	1·062	·316	73·3	81·7	—0·5	70·4*	+0·3*	76·7*	—0·2*	12·6*	106·5	47·0	59·5	29·8*
	Busrah †	25	29·866	...	29·861	30·509	29·313	1·187	·398	73·5	84·9	...	63·9	...	74·4	...	21·1	120·5	35·6	84·9	40·5
	Kerman	...	24·511*	...	...	24·770	24·140	·630	·342*	56·7	80·5	...	47·9†	...	65·8†	...	35·4†	112·0	22·2	89·9	55·7†
	Ispahan (b)	5,817	24·234	...	...	24·514	23·940	·570	·372	55·5	73·6	—0·5	38·0	+2·7	60·8	+1·1	25·7	105·4	19·2	86·2	43·6†
	Tehran (b)	4,002	25·098	...	...	26·400	25·350	1·050	·413	57·9	73·6	+0·7	51·8	+0·9	62·7	+0·8	21·9	108·8	20·4	83·4	38·9
	Baghdad‡	127	29·732	—·011	29·835	30·235	29·178	1·057	·395	66·8	83·4	+0·7	62·4	+0·4	75·4	+0·5	20·0	116·2	33·5	81·7	43·2
	Beirut (a) ¶	...	...	...	29·965	...	...	...	...	63·7	69·3	...	58·3	...	63·8	...	13·0	99·5	46·8	49·7	26·5
	Aden	94	29·837	+·012	29·863	30·152	29·489	·663	·201	81·7	87·4†	—0·2†	78·7	+1·0	83·9†	+0·4†	9·0†	109·0	69·1	39·9	18·2
	Zanzibar	72	29·905	+·013	29·903	30·148	29·832	·316	·149	79·7	85·3	+1·7	77·3	+0·9	81·3	+1·3	8·0	90·4	71·0	19·4	13·7

N.B.—Elevations in italics indicate barometrical determinations.
Note.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.
(*a*) 8½ hrs. observations.
(*b*) Aneroid uncorrected.
(*c*) Aneroid corrected.

* Mean of 11 months.
† " " 10 "
‡ " " 9 "
§ " " 7 "
¶ " " 6 "

B—concld.

stations in India, etc., in the year 1914.

Wind direction. Number of winds from									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.						Heaviest rainfall during year.	Station.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.		
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									Extra India —concld.
154	27	76	5	1	0	60	33	9	4·0	5·8	—1·8	90	+13	·822	—·023	8·5	+3·4	115	108·7	+6·3	74·37	84·53	—10·16	3·70	Colombo.
3	86	73	2	1	1	58	80	62	9·1	8·5	+0·6	91	...	·823	...	4·7	...	75	...	...	41·86	36·84	+5·02	3·50	Hambantota.
57	73	31	11	8	12	34	69	70	4·9	6·9	—2·0	...	...	....	...	4·4	—0·2	107	92·5	+14·5	79·47	61·84	+17·63	2·78	Minicoy.
18	81	50	17	7	4	31	76	81	6·4	...	...	76	—3	·847	—·012	5·1	—0·2	92	74·6	+17·4	65·38	52·36	+13·02	3·78	Amini Divi.
175	6	0	20	74	13	1	1	1	4·7*	...	...	78†	...	·227†	...	2·0	...	15	...	...	4·33	...	...	0·63	Gjantse. ‡
97	38	27	21	77	43	24	4	8	...	...	...	70*	...	·133*	...	2·3*	...	52	...	...	18·37§	...	...	1·60	Pharijong.
321	2	8	2	6	6	11	4	3	1·2	...	...	85	...	·432	...	1·0	...	158	165·4	—7·4	138·78 **	135·11	+1·67	4·13	Gangtok. ‖
94	1	0	0	123	8	3	1	7	6·4	...	...	...	...	...	...	2·6	...	9	...	...	2·50	...	...	0·44	Gartok. ††
288	17	35	2	14	14	6	5	14	1·1	2·1	—1·0	58	?	·250	?	4·8	+0·6	6	8·8	—2·8	3·47 §§	3·28	+0·19	1·25	Kashgar.
1	4	11	12	81	14	45	93	49	...	...	....	72	...	·302	...	1·9	+0·3	22	27·8	—5·8	15·36 §§	12·89	+0·47	2·40	Kabul. ‖‖
276	36	3	10	8	14	3	0	15	1·7	...	...	67	...	·290	...	2·5	?	24	22·5	+1·5	7·50	9·37	—1·87	1·20	Meshed.
11	69	49	135	22	6	5	6	62	8·4	8·7	—0·3	74	+ 3	·714	—·013	2·2	+0·6	12	8·9	+ 3·1	4·84	4·17	+0·67	1·29	Jask.
80	11	13	87	29	3	5	18	120	4·8	3·1	+1·7	63	— 1	·726	—·016	1·9	+0·3	14	6·2	+5·8	5·57 (a)	3·94	+1·63	1·48	Muscat.
0	9	4	6	4	2	3	11	20	5·9 ¶¶	...	...	77	...	·746	...	3·4 ¶¶	...	1	6·9	—5·9	0·49 (a)	2·47	—1·98	0·24	Bahrein (b)
107	51	35	25	21	9	2	28	89	6·9	5·8	+1·1	72	+ 5	·616	+·008	2·9	...	25	18·0	+7·0	9·12 (c)	11·07	—1·55	0·90	Bushire.
51	19	9	4	12	21	16	103	51	2·8	...	...	62	...	·496	...	1·8	...	10	14·7	—4·7	3·80 (d)	6·23	—2·43	1·10	Busrah. (d)
305	4	0	3	18	16	16	8	5	3·4	...	...	49	...	·227	...	1·7	...	24	...	...	6·74 (e)	...	...	0·62	Koweit.
300	7	1	1	2	0	9	42	8	1·9	2·9	—1·0	51	— 3	·286	—·033	2·4	+0·3	20	13·7	+6·3	5·43 (e)	4·74	+0·74	0·69	Ispahan.
114	17	50	3	9	8	16	3	1	1·7	2·2	—0·5	60	+12	·305	+·054	2·4	—0·1	19	26·9	—7·9	7·71 **	9·39	—1·69	1·50	Tehran. (f)
49	36	13	5	14	10	9	12	113	7·0	2·7	+4·3	54	— 5	·374	—·035	1·7	+0·5	11	16·0	—5·0	6·24 (i)	6·95	—0·71	1·23	Baghdad. (h)
98	2	8	0	0	0	57	6	0	...	...	...	69	...	·415	...	4·6	...	38	...	...	23·66 (i)	...	...	2·81	Beirut.
69	84	180	16	19	20	27	0	1	10·0	9·1	+0·9	74	+ 1	·915	+·034	4·3	+0·1	5	4·5	+0·5	2·37	2·65	—0·28	1·22	Aden.
60	33	43	1	43	99	77	3	1	4·2	4·9	—0·7	81	— 2	·821	+·004	* 6·6	+0·7	70	83·8	—13·8	43·35	63·30	—19·95	5·54	Zanzibar.

* Mean of 10 months.
† ... 7 ...
‡ Wind observations for 291 days.
§ Rainfall for July wanting.
‖ Wind observations for 363 days.
¶ Mean of 6 months.
** Rainfall from January to September.
†† Wind observations for 237 days.
§§ Rainfall since 11th April 1914.
‖‖ Wind observations for 365 days.
¶¶ Mean of 2 months.

(a) Rainfall for February and June.
(b) Wind observations for 59 days.
(c) Rainfall for October and November wanting.
(d) Wind observations for 336 days.
(e) Rainfall for April, May, October and November wanting.
(f) Wind observations for 221 days.
(h) Wind observations for 271 days.
(i) Rainfall from January to June.

Table C.—Abstract of observations taken at 8 hrs. at 65 fourth and fifth class stations in India, etc., in the year 1914.

TABLE

Abstract of observations taken at 8 hrs. at 65 fourth and

Number of sub-division.	Station.	Temperature on air.												Wind direction.								
		Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.	Number of winds from								
														Calms.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	II.—Assam.																					
4	Bishnath	68·8	83·6	...	63·9	...	73·8	...	19·7	99·5	41·6	57·9	33·3	...	...	...	...	...	...	...	...	...
	Borjuli	72·0	85·6	...	63·4	...	74·5	...	22·3	99·3	41·1	58·2	34·4	...	...	...	...	...	...	...	...	...
	Chaudkhira	71·4	80·3	...	63·0	...	76·1	...	26·4	104·6	41·0	63·6	40·3	...	...	...	...	...	...	...	...	...
	Doom Dooma	67·1	84·1	...	63·7	...	73·3	...	21·4	101·2	41·7	59·5	35·0	...	...	...	...	...	...	...	...	...
	Dikom	68·2	83·2	...	63·4	...	72·8	...	20·8	101·4	39·2	62·2	34·7	...	...	...	...	...	...	...	...	...
	Golaghat	69·9	83·5	...	63·7	...	73·1	...	19·8	99·8	42·6	57·2	31·8	...	...	...	...	...	...	...	...	...
	Hailakandi	73·7	86·0	...	66·3	...	76·2	...	19·7	98·4	45·0	53·4	31·4	...	...	...	...	...	...	...	...	...
	Jorehat	69·7	83·3	...	64·7	...	74·0	...	18·6	98·9	44·8	54·1	29·4	...	...	...	...	...	...	...	...	...
	Lumding	68·5	84·3	...	63·5	...	73·9	...	20·7	98·5	42·0	54·5	31·3	...	...	...	...	...	...	...	...	...
	Mesas	75·0	87·0	...	63·8	...	74·9	...	24·2	101·8	40·3	61·5	35·0	...	...	...	...	...	...	...	...	...
	Panerihat*	66·9	80·2	...	64·1	...	72·1	...	16·1	93·1	38·9	54·2	27·6	...	...	...	...	...	...	...	...	...
	III.—Bengal.																					
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	76·2	87·5	...	67·0	...	77·2	...	20·6	96·8	49·0	47·8	29·3	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	75·8	88·1	...	67·0	...	77·5	...	21·1	102·2	44·1	58·1	33·1	...	...	...	...	...	...	...	...	...
	Pabna	75·6	87·9	...	70·0	...	78·9	...	17·9	101·0	50·2	50·8	29·1	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim*	58·3	90·8	...	63·9	...	77·3	...	26·9	100·5	39·8	60·7	37·0	...	...	...	...	...	...	...	...	...
	Kalchini	75·2	85·1	...	61·0	...	3·1	...	24·1	97·1	37·9	59·2	34·0	...	...	...	...	...	...	...	...	...
	Nagrakata	74·3	84·8	...	64·0	...	74·4	...	20·8	96·1	46·0	50·1	30·2	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																					
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 10 months.

C.

fifth class stations in India, etc., in the year 1914.

Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.							
Mean velocity in miles per hour.	Normal.	Departure from normal.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Total rainfall for the year.	Normal rainfall for the year.	Departure from normal of year.	Heaviest rainfall during the year.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
																II.—Assam.
...	...	...	94	..	·611	...	...	...	103	117·6	—14·6	103·15	88·58	+19·57	9·95	Bishnath.
...	...	...	81	...	·664	...	...	...	95	110·8	—15·8	88·91	77·73	+11·18	5·99	Borjuli.
...	...	...	91	...	·716	...	...	...	126	130·3	— 4·3	100·71	106·52	— 5·81	5·55	Chandkhira.
...	...	...	88	...	·615	...	...	...	106	129·5	—23·5	80·63	96·74	—16·11	5·63	Doom Dooma.
...	...	...	88	...	·638	...	...	...	115	135·1	—20·1	83·77	102·47	—18·70	4·10	Dikom.
...	...	...	89	...	·627	...	...	...	102	110·6	— 8·6	56·43	65·66	— 9·23	2·62	Golaghat.
...	...	...	85	...	·700	...	...	...	124	136·9	—12·9	110·21	121·31	—11·10	4·70	Hailakandi.
...	...	...	91	...	·670	...	...	...	99	115·8	—16·8	66·17	76·37	—10·20	2·82	Jorehat.
...	...	...	90*	...	·723*	...	...	...	83	...	...	60·87	...	...	2·68	Lumding.
...	...	...	77	...	·701	...	...	...	101	112·7	—11·7	69·45	83·62	— 4·17	3·10	Messa.
...	...	...	93	...	·640	...	...	...	90	100·7‡	—10·7	72·87	74·30‡	— 1·43	3·35	Panerihat.
																III.—Bengal.
...	...	...	...	...	...	...	...	...	100	100·1	— 0·1	94·79	88·38	+ 6·41	5·69	Comilla.
...	...	...	80	...	·743	...	...	...	98	103·8	— 5·8	82·66	79·33	+ 3·33	4·35	Brahmanbaria.
...	...	...	...	...	...	...	...	...	91	90·8	+ 0·2	65·91	69·30	— 3·39	3·18	Faridpur.
...	...	...	80	...	·736	...	...	...	82	90·1	— 8·1	60·89	66·28	— 5·39	4·02	Goalundo.
...	...	...	83	...	·764	...	...	...	71	81·3	—10·3	41·54	60·11	—18·57	3·65	Pabna.
...	...	...	...	...	...	...	...	...	71	81·8	—10·8	48·29	64·30	—16·01	4·49	Sirajganj.
...	...	...	...	...	...	...	...	...	72	73·7	— 1·7	72·06	53·98	+18·08	4·94	Rampur Boalia.
...	...	...	...	...	...	...	...	...	61	67·8	— 6·8	45·09	52·82	— 7·73	5·40	Malda.
...	...	...	...	...	...	...	...	...	67	82·7	—15·7	53·48	80·53	—27·05	3·10	Rangpur.
...	...	...	78	...	·716	...	...	...	114	121·51	— 2·9	133·94	154·04‡	—17·34	3·58	Dam Dim.
...	...	...	78	...	·669	...	...	...	116	115·7	+ 0·3	143·44	150·71	— 7·27	8·53	Kalchini.
...	...	...	78	...	·635	...	...	...	121	132·1	—11·1	117·06	161·05	—43·99	5·40	Nagrakata.
...	...	...	...	...	...	...	...	...	92	103·6	—11·6	114·94	145·70	—30·76	5·62	Cooch Behar.
...	...	...	...	...	...	...	...	...	83	76·0	+ 7·0	54·50	57·05	— 2·55	3·98	Krishnagar.
...	...	...	...	...	...	...	...	...	74	73·3	+ 0·7	57·89	54·39	+ 3·50	6·05	Baskura.
...	...	...	...	...	...	...	...	...	61	73·2	—12·2	44·34	52·72	— 8·38	6·91	Raniganj (Asansol.)
																IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	69	75·4	— 6·4	50·62	52·85	— 2·23	3·50	Hazaribagh.
...	...	...	...	...	...	...	...	...	59	60·0	— 1·0	43·96	49·00	— 5·04	4·22	Bhagalpur.
...	...	...	...	...	...	...	...	...	51	56·1	— 5·1	41·26	49·11	— 7·85	3·25	Muzaffarpur.
...	...	...	...	...	...	...	...	...	53	58·7	— 5·7	44·71	56·17	—11·46	6·57	Motihari.
...	...	...	...	...	...	...	...	...	50	52·2	— 2·2	31·36	41·81	—10·45	4·19	Chapra.
...	...	...	...	...	...	...	...	...	42	55·1	—13·1	31·17	44·25	—13·08	3·40	Arrah.
...	...	...	...	...	...	...	...	...	43	54·0	—11·0	29·77	42·16	—12·39	3·28	Dehri.

* Mean of 9 months.
‡ Total „ 12 „

TABLE

Abstract of observations taken at 8 hrs. at 65 fourth and

Number of sub-division.	Station.	Temperature of Air.												Wind direction.								
														Number of winds from								
		Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.	Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	V.—United Provinces of Agra and Oudh.																					
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																					
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																					
23	Chhindwara	71·1	87·1	...	64·1	...	75·6	...	23·1	110·6	37·1	73·5	37·1	220	13	11	6	4	7	17	34	34
	XIII.—Hyderabad.																					
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																					
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	78·1	93·7	...	70·8	...	82·2	...	22·9	109·2	47·1	61·1	34·6	...	...	...	...	...	...	...	...	...
33	Guntur	79·5	94·1	...	73·4*	...	83·8*	...	21·0*	115·2	55·5	59·7	33·2*	...	...	...	...	...	...	...	...	...
	Bay Islands.																					
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																					
13	Jammu†	71·3	82·9	...	63·1	...	73·0	...	19·9	123·1	37·8	35·3	32·0	0	145	104	27	5	42	1	1	2
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	41·8	‡ 61·7	...	30·7	...	46·2	...	31·0	109·3	—9·0	118·3	54·1	0	166	5	90	57	38	13	5	31
	Baluchistan.																					
16	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																					
	Panighatta	70·9	88·1	...	65·3	...	74·2	...	17·8	97·1	51·2	45·9	27·2	...	...	...	...	...	...	...	...	...
	Kurseong	60·8	67·3	...	56·8	...	62·1	...	10·5	82·3	42·4	39·9	20·4	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pooh	...	60·5	...	41·1	...	50·8	...	19·4	89·1	16·2	74·9	35·9	216	12	5	44	16	8	4	45	14
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin*	...	73·6	...	46·0	...	59·8	...	27·6	104·4	16·0	88·4	42·8	...	...	...	...	...	...	...	...	...

* Mean of 11 months.
† Wind observations of 334 days.
‡ Wind observations of 364 days.

C—contd.

fifth class stations in India, etc., in the year 1914—contd.

Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.						Highest rainfall during the year.	Station.
Mean velocity in miles per hour.	Normal.	Departure from normal.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Total rainfall for the year.	Normal rainfall for the year.	Departure from normal of year.		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
																V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	41	38·9	+ 2·1	37·47	32·27	+ 5·20	5·55	Meerut.
...	...	...	...	...	...	...	...	...	79	90·4	— 1·4	75·06	85·22	—10·16	7·08	Dehra Dun.
																IX.—Rajputana.
...	...	...	...	...	...	...	...	...	45	31·5	+13·5	24·41	23·40	+1·01	1·63	Udaipur.
																XII.—Central Provinces.
1·8	...	...	68	...	·529	...	2·8	...	60	...	...	38·47	...	...	4·50	Chhindwara.
																XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	58	46·2	+11·8	58·91	31·75	+27·16	15·80	Parbhani.
																XV.—Madras.
...	...	...	...	...	...	...	...	...	48	40·4	+ 7·6	50·46	27·29	+23·17	6·36	Tinevelly.
...	...	...	75	...	·732	...	6·2	...	35	...	...	16·70	...	...	1·73	Anantapur.
...	...	...	79	...	·801	...	1·8	...	60	...	...	26·45	...	...	1·83	Guntur.
																Bay Islands.
...	...	...	...	...	...	...	...	...	53	131·2	—73·2	94·74	98·51	— 3·77	4·38	Car Nicobar.
																Kashmir.
...	...	...	62	...	·454	...	3·2	...	67	...	...	60·19	...	...	7·75	Jammu.
...	...	...	...	...	...	...	...	...	100	109·7	—9·7	63·87	77·84	—13·97	4·05	Sonamarg.
...	...	...	71	...	·212	...	3·8	...	20	...	...	7·86	...	...	1·08	Kargil.
																Baluchistan.
...	...	...	...	...	...	...	...	...	26*	13·6	+14·7*	13·71*	12·04	+ 7·43*	1·50	Harnai.
																Hill stations, exclusive of Kashmir.
...	...	...	74	...	·591	...	...	...	113	114·5	+ 3·5	136·81	137·53	—10·72	4·38	Pachmarhi.
...	...	...	86	...	·477	...	...	...	127	131·0	— 4·0	164·87	153·72	+11·15	9·32	Kurseong.
...	...	...	...	...	...	...	...	...	168‡	...	...	128·04‡	...	...	4·53	Gnatong.
...	...	...	...	...	...	...	...	...	164	...	...	68·91	...	...	1·96	Lachung.
...	...	...	...	...	...	...	...	...	158	...	...	136·65	...	...	5·96	Ringim.
...	...	...	...	...	...	...	...	...	114	88·2	+25·8	134·78	93·84	+40·94	6·41	Mussooree.
...	...	...	...	...	...	...	4·0	...	41	34·1	+ 6·9	17·64	14·50	+ 3·14	1·43	Poo.
...	...	...	...	...	...	...	...	...	62	48·7	+13·3	33·66	23·08	+10·58	2·15	Kailang.
...	...	...	...	...	...	...	...	...	107	...	...	114·83‡	...	...	6·11	Bahloh.
...	...	...	...	...	...	...	2·1a	...	35	18·9	+16·1	16·07	8·11	+ 7·96	1·63	Hihim.

* Total of 6 months.
a Mean of 10 months.
‡ Rainfall for 10 months.

TABLE

Abstract of observations taken at 8 hrs. at 65 fourth and

Number of sub-division.	Station.	Temperature of air.											Wind direction.								
													Number of winds from								
		Mean of 8 hrs. temperature of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.	Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Extra India.																					
	Ahwaz	...	86·0	...	67·1	...	76·6	...	18·9	115·6	42·2	73·4	35·5	...	...	...	...	...	...	...	...	...
	Chumbi	40·9	57·3	...	37·1*	...	46·1*	...	21·9*	76·1	17·2	58·9	24·8*	...	...	...	...	...	...	...	...	...
	Kirmanshah	56·7	71·4	...	43·7	...	57·5	...	27·7	105·5	20·0	85·5	45·7	...	...	...	...	...	...	...	...	...
	Koweit	...	77·3	...	63·9	...	73·1	...	8·3	107·4	43·3	64·1	25·3	18	13	0	56	1	3	12	257	6
	Maidan	...	85·3	...	58·5	...	72·6	...	28·1	117·2	29·2	88·0	45·1	...	...	...	...	...	...	...	...	...
	Muhammerah	...	86·4	...	66·2	...	76·3	...	20·2	110·6	40·6	70·0	33·0	19	0	13	0	52	1	8	2	269
	Pamba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Seistan	...	82·0	...	57·4	...	70·2	...	25·5	113·0	24·0	91·0	46·3	42	125	13	19	1	5	1	20	139

* Mean of 16 months.

C—concld.

fifth class stations in India, etc., in the year 1914—concld.

Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.						Heaviest rainfall during the year.	Station.
Mean velocity in miles per hour.	Normal.	Departure from normal.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Total rainfall for the year.	Normal rainfall for the year.	Departure from normal of year.		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
																Extra India.
...	...	...	...	...	...	...	1·9	...	21	...	...	7·87	...	...	0·83	Ahwaz.
...	...	...	85	...	·242	...	1·9*	...	77	...	...	36·83	...	...	2·05	Chumbi.
...	...	...	56	...	·240	...	...	...	47	...	...	19·12	...	...	1·81	Kirmanshah.
...	...	...	...	...	...	...	1·7	...	13	...	...	4·73	...	...	1·13	Koweit.
...	...	...	...	...	...	...	...	...	43	...	...	27·80	...	...	2·25	Naidan.
...	...	...	...	...	...	...	...	...	13	...	...	5·35	...	...	0·90	Muhammerah.†
...	...	...	...	...	...	...	...	...	104	104·2	—0·2	54·02	83·58	—29·56	2·00	Pemba.
9·9	...	...	...	...	...	...	...	...	13	...	...	3·61	...	...	0·61	Seistan.

*Mean of 10 months. † Wind observations of 304 days.

Addenda Sheet of 10 and 16 hrs. Observations in Table A of 1914, Monthly Weather Review.

Addenda Sheet of Observations taken at 10 hrs. and

Number of sub-division.	Station.	Elevation of bar-cistern above sea-level, in feet.	Pressure.						Temperature of air.										Temperature, Wet-bulb.			
			Mean of 10 hrs.	Mean of 10 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea-level and gravity, 45° lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	February 1914.																					
	Extra India.																					
	Mauritius	181	...	...	...	29·750	+·013	29·876	...	...	...	...	...	...	...	...	79·7	+1·2	...	...	...	74·2
	August 1914.																					
	Extra India.																					
	Mauritius	181	...	...	...	30·055	+·041	30·186	...	...	...	...	...	...	...	...	68·1	+0·2	...	...	...	62·9
	October 1914.																					
	Extra India.																					
	Mauritius	181	...	...	...	29·958	+·011	30·088	...	...	...	...	...	...	...	...	70·8	—1·1	...	...	...	64·6
	November 1914.																					
	Extra India.																					
	Mauritius	181	...	...	...	29·881	0	30·009	...	...	...	...	...	...	...	...	74·7	—0·2	...	...	...	67·8

16 hrs. in Table A of 1914, Monthly Weather Review.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind Direction.										Wind steadiness.		Wind velocity.		Rainfall.	Station.	Number of sub-division.
														Total number of 10 hrs. and 16 hrs. winds from								Mean wind direction.	Normal mean wind direction of month.							
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From sunsheam.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.				Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46		47	48	49	50	51	52	53	54	55
																															February 1914.	
																															Extra India.	
...	...	...	·826	+·036	...	...	...	82	+ 3	...	...	5·7	−0·2											S 82°E	S 83°E	...	...	121	162	8·57	Mauritius . .	
																															August 1914.	
																															Extra India.	
...	...	...	·496	−·007	...	...	...	72	− 2	...	...	5·2	+0·1											S 69°E	S 66°E	...	...	251	185	1·71	Mauritius . .	
																															October 1914.	
																															Extra India.	
...	...	...	·515	−·032	...	...	...	68	− 2	...	...	5·6	+0·4											S 82°E	S 79°E	...	...	191	179	0·69	Mauritius . .	
																															November 1914.	
																															Extra India.	
...	...	...	·572	−·028	...	...	...	67	− 3	...	...	5·3	+0·3											S 81°E	S 84°E	...	...	235	234	0·03	Mauritius . .	

Addenda Sheet of 8 hrs. Observations in Table B of 1914, Monthly Weather Review.

Addenda Sheet of 8 hrs. Observations

Number of sub-division.	Station.	Elevation of bar-etatern above sea-level, in feet.	Pressure, 8 hrs., in inches.								Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure recorded during month.	Date.	Lowest pressure recorded during month.	Date.	Total range of pressure during month.	Mean of 8 hrs. temperature.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
January 1914.																							
	Beirut (a)	...	...	...	30·038	...	...	...	...	...	56·3	62·5	...	52·9	...	57·7	...	9·6	72·1	6th	46·8	10th	25·3
March 1914.																							
	Gyantse	13,120	18·382	...	18·343	18·610	2nd	18·249	12th	·361	27·4	47·1	...	13·8	...	30·5	...	33·3	55·0	20th, 29th & 31st.	5·1	16th	49·9
	Tehran (b) (d)	*4,009*	25·734	...	...	25·950	12th & 17th.	25·450	4th	·500	45·1	63·1	+5·5	41·2	+3·7	52·1	+4·1	21·9	81·7	31st	28·5	17th	53·2
	Beirut (a)	...	...	...	29·997	...	...	...	...	...	61·1	66·8	...	56·2	...	61·5	...	10·6	74·1	12th & 28th.	48·0	7th	26·1
April 1914.																							
	Tehran (b) (e)	*4,009*	25·593	...	...	25·630	1st	25·575	2nd & 3rd.	·055	58·5	71·7	+4·6	52·3	+7·2	62·0	+5·9	19·4	77·5	2nd	47·7	3rd	29·8
	Beirut (a)	...	...	...	29·944	...	...	...	...	...	61·7	67·6	...	55·9	...	61·7	...	11·7	71·8	14th	49·1	22nd	22·7
May 1914.																							
	Minicoy	*7*	29·926	...	...	30·009	19th	29·871	13th	·138	...	...	...	...	...	...	...	...	...	...	...	...	...
	Amini Divi	*13*	29·901	+·020	29·842	29·987	10th	29·855	13th & 29th.	·132	80·9	9[illegible]	+4·3	82·5	+1·9	88·4	+3·1	11·9	96·5	29th & 30th.	79·8	3rd	16·7
	Gyantse	13,120	18·478	...	18·439	18·655	1st	18·235	11th	·420	45·9	65·5	...	31·2	...	48·3	...	34·3	75·2	21st	20·2	1st & 3rd.	55·0
	Tehran (b) (e)	*4,009*	25·700	...	...	25·850	24th	25·600	29th	·250	73·1	88·8	+2·3	63·1	+1·1	76·0	+1·9	25·7	94·0	25th	59·0	29th & 30th.	35·0
June 1914.																							
	Amini Divi	*13*	29·841	+·006	29·782	29·907	6th	29·776	14th	·131	83·5	89·7	+3·5	78·7	+0·6	84·2	+2·1	11·0	95·5	11th	73·9	19th	21·6
	Bahrein	18	29·680	...	(i) 29·651	29·801	2nd	29·570	27th	·231	86·0	(f) 90·3	...	(f) 83·6	...	(h) 86·8	...	6·7	94·7	8th	70·0	5th & 18th.	15·7
	Tehran (b) (g)	*4,009*	25·556	...	...	25·700	3rd	25·450	4 days	·250	76·3	92·9	−1·2	65·2	−1·6	79·0	−1·4	27·7	99·6	20th	58·1	2nd	41·5
July 1914.																							
	Tehran (b) (i)	*4,009*	25·485	...	...	25·600	2nd, 11th & 12th.	25·350	18th	·250	62·1	100·6	+2·3	73·2	+1·2	86·9	+1·7	27·4	103·3	21st	67·5	10th	35·3
August 1914.																							
	Minicoy	*7*	29·948	...	...	29·999	10th	29·895	18th	·104	...	...	...	...	...	...	...	...	...	...	...	...	...
	Gyantse	13,120	18·465	...	18·426	18·556	31st	18·345	2nd	·211	51·2	69·5	...	39·6	...	54·5	...	29·7	75·0	5 days	34·0	18th	41·0
September 1914.																							
	Gyantse	13,120	18·553	...	18·514	18·621	23rd & 25th.	18·450	21st & 29th.	·171	48·4	68·7	...	35·0	...	51·9	...	33·7	75·0	14th	30·0	30th	45·0
November 1914.																							
	Kerman (c)	...	24·546	...	...	24·645	20th	24·420	18th	·225	49·7	71·1	...	...	...	...	...	...	80·0	14th	...	...	...
December 1914.																							
	Busrah (p)	25	30·214	...	30·210	30·382	28th	29·947	22nd	·435	52·7	66·6	...	43·6	...	55·1	...	23·0	78·8	19th	35·6	22nd & 29th.	43·2

N. B.—Elevations in italics indicate barometrical determinations.

NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(a) 8½ hrs. observations.
(b) Aneroid uncorrected.
(c) Aneroid corrected.
(d) Mean of 30 days.
(f) Mean of 28 days.
(g) „ „ 27 „
(h) „ „ 26 „
(i) „ „ 25 „
(p) Mean of 16 days,
(e) „ „ 10 „
(v) „ „ 3 „

in Table B of 1914, Monthly Weather Review.

Wind Direction. Number of winds from: Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind Velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind Steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. At 9 hrs. humidity at	Departure from normal.	Mean vapour tension at 9 hrs., in inches of mercury.	Departure from normal in inches of mercury.	Cloud. Mean cloud amount at 9 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall of period.	Normal rainfall of period.	Departure from normal of period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																January 1914.
20	0	0	0	0	0	7	4	0	S 61° W	...	...	...	...	32	...	71	...	·321	...	6·0	...	14	...	...	10·56	...	...	22·74	...	...	2·25	Beirut.
																																March 1914.
11	1	0	4	12	2	0	0	1	S 53° E	...	(h) 2·4	...	...	43	...	...	...	...	...	1·5	...	0	...	...	0	...	...	0	...	...	0	Gyantse.
12	7	0	0	0	0	0	1	0	N 21° E	N 14° E	(g) 2·0	2·8	−0·8	48	...	58	+ 2	1·75	−0·19	2·4	+1·7	2	5·6	−3·6	1·92	1·98	−0·01	6·38	5·94	+0·44	1·50	Tehran.
16	1	2	0	0	0	12	0	0	S 49° W	...	...	...	...	29	...	71	...	·383	...	4·5	...	7	...	...	5·94	...	...	31·03	...	...	2·61	Beirut.
																																April 1914.
1	0	2	0	0	0	0	0	0	N 45° E	S 63° W	2·5	3·2	−0·7	33	...	59	+13	·282	+·042	5·3	+2·2	1	3·0	−2·0	0·46	1·13	−0·67	6·84	7·07	−0·23	0·38	Tehran.
19	0	2	0	0	0	8	1	0	S 51° W	...	...	...	...	23	...	75	...	·410	...	5·5	...	8	...	...	4·62	...	...	35·65	...	...	1·12	Beirut.
																																May 1914.
0	5	2	0	0	1	6	7	11	N 61° W	N 69° W	5·5	7·4	−1·9	65	...	...	...	...	...	4·4	−0·6	6	8·9	−2·9	4·75	5·68	−0·93	4·75	5·68	−0·93	2·33	Minicoy.
1	4	0	0	0	0	2	8	16	N 56° W	...	7·0	...	...	81	...	73	−5	·918	−·020	5·3	−0·4	1	4·3	−3·3	0·35	3·14	−2·79	0·35	3·14	−2·79	0·32	Amini Divi.
26	1	0	0	4	0	0	0	0	S 56° E	...	4·5	...	...	10	...	95	...	·296	...	3·5	...	0	...	...	0·03	...	...	0·03	...	...	0·03	Gyantse.
1	0	0	1	1	1	4	1	1	S 37° W	S 46° W	2·2	2·6	−0·4	50	...	45	+ 5	·359	+0·53	3·4	+0·7	0	1·9	−1·9	0	0·45	−0·45	0	0·45	−0·45	0	Tehran.
																																June 1914.
0	0	1	0	0	2	11	12	4	S 75° W	...	10·3	...	...	77	...	82	−3	·241	−·003	7·3	−0·5	19	15·7	+3·3	13·87	13·67	+0·20	14·23	16·81	−2·59	2·89	Amini Divi.
									...	...	...	...	...	...	...	(e) 70	...	(e) ·375	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Behrein.
18	0	1	0	2	2	4	0	0	S 11° W	S 70° W	(d) 1·0	2·2	−1·2	19	...	42	+10	·378	+·051	0·9	0	0	0·3	−0·3	0	0·03	−0·03	0	0·53	−0·53	0	Tehran.
																																July 1914.
14	0	0	0	4	2	4	1	0	S 7° W	S 44° W	(f) 1·5	1·7	−0·2	32	...	46	+11	·505	+·109	0·2	−0·8	0	0·6	−0·6	0	0·22	−0·22	0	0·75	−0·75	0	Tehran.
																																August 1914.
0	2	1	0	0	0	2	7	19	N 54° W	N 79° W	5·5	10·9	−5·4	84	...	...	...	...	...	6·4	+0·2	16	10·3	+5·2	8·68	7·46	+1·22	41·95	31·66	+10·29	1·65	Minicoy.
10	0	0	0	0	0	0	0	0	Calm	...	2·3*	...	...	(c)	...	76	...	·286	...	4·7	...	10	...	...	2·81	...	...	4·33	...	...	0·63	Gyantse.
																																September 1914.
									...	...	...	...	...	...	...	(i) 66	...	(i) ·224	...	2·1	...	0	...	...	0	...	...	4·33	...	...	0	Gyantse.
																																November 1914.
28	0	0	0	2	0	0	0	0	S 45° E	...	0·7	...	...	3	...	58	...	·202	...	2·5	...	2	...	...	0·76	...	...	2·09	...	...	0·61	Kerman.
																																December 1914.
0	1	0	3	0	2	2	8	2	S 83° W	...	(b) 4·4	...	...	44	...	81	...	·321	...	0	...	0	2·5	−2·5	0	0·82	−0·82	0	0·82	−0·82	0	Bushab.

* Observations for 10 days.

(a) Indeterminate.
(b) Mean of 29 days.
(c) " " 27 "
(d) " " 28 "
(e) Mean of 25 days.
(f) " " 22 "
(g) " " 17 "

Addenda Sheet of 8 hrs. Observations in Table C of 1914, Monthly Weather Review.

Addenda Sheet of 8 hrs. Observations in

Number of Sub-division.	Station.	Temperature of Air.												
		Mean of 8 hrs. temperature.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	January 1914.													
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...
	Maldan	...	64·0	...	40·3	...	53·2	...	23·7	72·7	22nd	29·2	13th	43·5
	February 1914.													
	Maldan	...	62·0	...	40·1	...	51·0	...	21·9	65·7	10th	31·2	27th	34·5
	April 1914.													
	Car-Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...
	May 1914.													
	Car-Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...
	July 1914.													
	Chandkhira	82·1	97·3	...	70·0	...	83·7	...	27·3	103·7	20th	61·9	3rd	41·8

Table C of 1914, Monthly Weather Review.

Wind direction. Number of winds from: Calm (16)	N. (17)	N.E. (18)	E. (19)	S.E. (20)	S. (21)	S.W. (22)	W. (23)	N.W. (24)	Resultant direction. (25)	Normal direction. (26)	Wind velocity. Mean velocity, miles per hour. (27)	Normal. (28)	Departure from normal. (29)	Wind steadiness. Actual percentage. (30)	Departure from normal. (31)	Hygrometry, 8 hrs. Mean humidity at 8 hrs. (32)	Departure from normal. (33)	Mean vapour tension at 8 hrs. in inches (34)	Departure from normal in inches of mercury. (35)	Cloud. Mean cloud amount at 8 hrs. (36)	Departure from normal. (37)	Rainfall. Number of rainy days. (38)	Normal number of rainy days. (39)	Departure from normal. (40)	Rainfall of month. (41)	Normal rainfall of month. (42)	Departure from normal. (43)	Total rainfall of period. (44)	Normal rainfall of period. (45)	Departure from normal of period. (46)	Heaviest rainfall during month. (47)	Station. (48)
																																January 1914.
									...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	0·74	...	...	2·45	...	...	0·31	Lachung.
									...	...	...	...	...	...	...	...	...	...	...	...	...	5	...	...	2·50	...	...	2·50*	...	...	0·85	Maidan.
																																February 1914.
									...	...	...	...	...	...	...	...	...	...	...	...	...	10	...	...	7·78	...	...	10·28*	...	...	1·75	Maidan.
																																April 1914.
									...	...	...	...	...	...	...	...	...	...	...	...	...	4	5·6	−1·6	4·48	3·38	+1·10	13·62	16·95	−3·13	2·01	Car-Nicobar.
																																May 1914.
									...	...	...	...	...	...	...	...	...	...	...	...	...	5	16·5	−11·5	5·90	13·72	−7·82	5·90	13·72	−7·82	1·45	Car-Nicobar.
																																July 1914.
									...	...	...	...	...	...	...	91	...	·991	...	...	...	22	23·2	−1·2	16·84	18·57	−1·73	54·09	54·89	−0·80	3·05	Chandkhira.

* Rainfall for December 1913, wanting.

Corrigenda in the India Monthly Weather Reviews for the year 1914.

TEXT.

Page.	Column.	Part.	Correction.
3	1	January 1914 . .	*For* "6, 2, 9, 2, 5, 8, 4, 1, 7, 5, 6 and 9" *read* "35, 10, 55, 14, 29, 49, 26, 7, 41, 29, 38 and 53," respectively, in the figure column 3 of table 3 under S from January 12th to 30th.
6	2	Ditto . .	*For* "+·077" *read* "+·062" against Hyderabad in the figure column 1 of table 8.
6	2	Ditto . .	*For* "+·055 and +·029" *read* "+·075 and +·009," respectively, in the figure columns 1 and 3 of table 9 against Darjiling and Dhubri.
9	1	Ditto . .	*For* "−1·4 and −1·8" *read* "−1·1 and −1·7," respectively, against Burma in the figure columns 2 and 3 of table 11.
9	1	Ditto . .	*For* "+0·1, −0·2 and −0·1" *read* "+0·7, +0·1 and +0·4", respectively, against Bihar and Orissa in the figure columns 1, 2 and 3 of table 11.
9	1	Ditto . .	*For* "+4·3" *read* "+4·4" against United Provinces in the figure column 1 of table 11.
9	2	Ditto . .	*For* "+4·0, +3·5 and +3·8" *read* "+3·8, +3·3 and +3·5," respectively, against Rajputana in the figure columns 1, 2 and 3 of table 11.
9	2	Ditto . .	*For* "+1·5 and +1·2" *read* "+1·2 and +1·1," respectively, against Bombay in the figure columns 1 and 3 of table 11.
9	2	Ditto . .	*For* "+2·6, +1·0 and +1·8" *read* "+2·4, +0·8 and +1·5," respectively, against Central Provinces in the figure columns 1, 2 and 3 of table 11.
9	2	Ditto . .	*For* "−0·4, −0·3 and −0·4" *read* "−0·3, −0·1 and −0·2," respectively, against Madras in the figure columns 1, 2 and 3 of table 11.
10	2	Ditto . .	*For* "+1·9" *read* "+1·8" against Burma in the figure column 6 of table 13.
10	2	Ditto . .	*For* "+0·1" *read* "+1·5" against Assam in the figure column 6 of table 13.
10	2	Ditto . .	*For* "−·3 and −0·22" *read* "−·2 and −·018" against Bombay in the figure columns 2 and 4 of table 13.
10	2	Ditto . .	*For* "+0" *read* "+0·1" against Central India in the figure column 6 of table 13.
10	2	Ditto . .	*For* "−·003" *read* "−·031" against Hyderabad in the figure column 4 of table 13.
10	2	Ditto . .	*For* "−·031" *read* "−·033" against Madras in the figure column 4 of table 13.
17	1	February . .	*For* "20 and 24" *read* "32 and 23" against February 6th in figure column 3 under S in table 3.
17	1	Ditto . .	*For* "24, 48 and 42" *read* "22, 49 and 43," respectively, against February 22nd to 26th under S of table 3.
19	...	Ditto . .	*For* "−2·54" *read* "+1·46" against rainfall departure from normal of table 7.
19	1	Ditto . .	*For* "−·006 and +·031" *read* "+·008 and +·017," respectively, against Darjiling and Dhubri in the figure columns 1 and 4 of table 10.
29	1	March . . .	*For* "42, 0, 36, 54 and 48" *read* "45, 58, 39, 56 and 47," respectively, against March 6th under S of table 4.
29	2	Ditto . .	*For* "54, 54, 42, 36, 54, 36, 48, 9, 6, 12, 0 and 6" *read* "57, 52, 41, 38, 52, 37, 47, 59, 8, 10, 3 and 9," respectively, against March 14th to 28th under S of table 4.
31	2	Ditto . .	*For* "−·038 and +7·70" *read* "−0·41 and +7·00," respectively, against rainfall departure of table 7.
32	2	Ditto . .	*For* "−·027 and +·050" *read* "−·011 and +·034," respectively, against Darjiling and Dhubri in the figure columns 1 and 4 of table 9.
34	2	Ditto . .	*For* "+·025" *read* "+0·5" against Madras in the figure column 3 of table 11.
42	2	April . . .	*For* "−·011 and +·003" *read* "+·064 and +·012," respectively, against Darjiling and Dhubri in the figure columns 1 and 4 of table 9.
47	1	Ditto . . .	*For* "5·4, 4·87, +1·80 and +59" *read* "5·3, 4·80, +1·73 and +56," respectively, against 13 Kashmir in the figure columns 1, 3, 5 and 6 of table 15.
47	1	Ditto . . .	*For* "0·15, −·007 and −·032" *read* "0·13, −·009 and −41," respectively, against Rajputana East, in the figure columns 3, 5 and 6 of table 15.
47	2	Ditto . . .	*For* "0·20, −0·02 and −9," *read* "0·18, −0·04 and −18," respectively, against Rajputana, in the figure columns 1, 3 and 4 of table 16.

Corrigenda in the India Monthly Weather Reviews for the year 1914.

TEXT.

Page.	Column.	Part.	Correction.
53	2	May 1914 . . .	*For* " +·006 and + ·036," *read* " +·081 and — ·039," respectively, against Darjiling and Dhubri in the figure columns 2 and 5 of table 9.
57	1	Ditto . . .	*For* " 0·9, 0·39, +0·02 and +5," *read* " 0·8, 0·35, —0·02 and—5," respectively, against Rajputana East, in the figure columns 1, 3, 5 and 6 of table 15.
57	2	Ditto . . .	*For* " 0·32, 0, and 0," *read* " 0·30, —0·02 and— 6," respectively, against Rajputana, in the figure columns 1, 3 and 4 of table 16.
65	2	June . . .	*For* " 0 and +·019 " *read* " ·075 and —·056," respectively, against Darjiling and Dhubri, in the figure columns 1 and 4 of table 9.
68	2	Ditto . . .	Insert " —·019 " against Hyderabad, in the figure column 4 of table 13.
75	1	July . . .	*For* " — ·045 " *read* " — ·047 " against Assam, in the figure column 1 of table 9.
75	1	Ditto . . .	*For* " — ·061 " *read* " — ·063 " against Bengal, in the figure column 1 of table 9.
75	2	Ditto . . .	*For* " — ·046 " *read* " — ·048 " against Punjab, in the figure column 1 of table 9.
75	2	Ditto . . .	*For* " — ·048 " *read* " — ·047," against Bombay, in the figure column 1 of table 9.
75	2	Ditto . . .	*For* " — ·042 " *read* " — ·044," against Hyderabad, in the figure column 1 of table 9.
75	2	Ditto . . .	*For* " — ·090? and +·040 " *read* " —·015 and —·035," respectively, against Darjiling and Dhubri, in the figure columns 1 and 4 of table 10.
133	1	December . .	*For* " + ·044 " *read* " + ·035 " against Burma, in the figure column 4 of table 15.
133	2	Ditto . .	*For* " +·021 " *read* " +·024 " against Madras, in the figure column 4 of table 15.

Corrigenda in the India Monthly Weather Reviews for the year 1914.

TABLES A, B & C.

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
iii	January 1914	A	Madras	Humidity	33	*For* "—8" *read* "—3."
vi	Ditto	B	Bassein	Pressure	4 to 7 and 9	*For* "30·090, + ·088, 30·054, 30·250 and 29·991" *read* "30 102, + ·100, 30·066, 30·262 and 30·003," respectively.
„	Ditto	„	Minbu	Temperature	12	*For* "61·8" *read* "61·3."
„	Ditto	„	Yamethin	Pressure	4 to 7 and 9	*For* "29·458, + ·096, 30·098, 29·621 and 29·358" *read* "29·447, + ·085, 30·087, 29·610 and 29·347," respectively.
viii	Ditto	„	Jessore	Ditto	5 and 6	For "+ ·084 and 30·110," *read* "+ ·081 and 30·107," respectively.
xii	Ditto	„	Nizamabad	Ditto	11	*For* "·326" *read* "·236."
xv	Ditto	„	Kashmir	Wind velocity	36	Omit 0·4.
„	Ditto	„	Muzaffarabad	Ditto	36 and 37	*For* "2·3 and 2·3" *read* "0·4 and blank," respectively.
„	Ditto	„	Srinagar	Ditto	36 and 37	Insert "2·3 and 2·3."
xvi	Ditto	„	Mukteswar	Temperature	12, 15 to 19, 22 and 24.	*For* "43·1, 36·9, +1·5, 45·7, +3·2, 17·6, 30·0 and 30·5," *read* "42·6, 38·9, +3·5, 46·7, +4·2, 15·6, 32·0 and 28·5," respectively.
„	Ditto	„	Darjiling	Pressure	5	*For* "+ ·055" *read* "+ ·075."
„	Ditto	„	Singapore	Ditto	9	*For* "29·92" *read* "29·925."
„	Ditto	„	Pharijong	Station	1	*For* "Pharijon" *read* "Pharijong."
xxvii	Ditto	C	Kailong	Rainfall	43	*For* "0·18" *read* "+0·18."
xxxiv	February	B	Bassein	Pressure	4 to 7 and 9	*For* "29·992, + ·030, 29·956, 30·047 and 29·946" *read* "30·004, + ·042, 29·968, 30·059 and 29·958," respectively.
„	Ditto	„	Minbu	Temperature	12	*For* "65·9" *read* "65·4."
„	Ditto	„	Yamethin	Pressure	4 to 7 and 9	*For* "29·355, + ·053, 29·984, 29·435 and 29·303" *read* "29·344, + ·042, 29·973, 29·424 and 29·292," respectively.
xxxv	Ditto	„	Noakhali	Rainfall	49	*For* "+1·" *read* "+1·0."
xxxvii	Ditto	„	Purulia	Hygrometry 8 hrs.	43	*For* "·711" *read* "·354."
xxxviii	Ditto	„	Khushab	Temperature	15 to 19, 22 and 24	*For* "44·5, —1·6, 55·7, —1·7 ?, 22·3, 38·4 and 38·0," *read* "45·0, —1·1, 55·9, —1·5 ?, 21·8, 38·9 and 37·5," respectively.
xliv	Ditto	„	Skardu	Ditto	16	*For* "—0·3" *read* "+0·3."
xlvi	Ditto	„	Mukteswar	Ditto	12, 15 to 19, 22 and 24.	*For* "40·2, 32·8, —1·9, 40·8, —1·4, 15·9, 21·0 and 39·5" *read* "39·7, 34·8, +0·1, 41·8, —0·4, 13·9, 23·0 and 37·5," respectively.
„	Ditto	„	Darjiling	Pressure	4 to 7 and 9	*For* "22·979, —·006, 22·934, 23·080 and 22·900" *read* "22·993, + ·008, 22·948, 23·094 and 22·914," respectively.
xlvi	Ditto	„	Singapore	Temperature	22	*For* "8·0" *read* "68·0."
xlvii	Ditto	„	Ditto	Rainfall	52	*For* "—4·46" *read* "—4·56."
li	Ditto	C	Nagrakata	Ditto	43	*For* "1·48" *read* "+1·48."
lxii	March	B	Bassein	Pressure	4 to 7 and 9	*For* "29·930, + ·008, 29·894, 30·075 and 29·811" *read* "29·942, + ·020, 29·906, 30·087 and 29·853," respectively.
„	Ditto	„	Minbu	Temperature	12	*For* "77·2" *read* "76·7."
„	Ditto	„	Yamethin	Pressure	4 to 7 and 9	*For* "29·256, + ·030, 29·900, 29·438 and 29·201" *read* "29·275, + ·019, 29·889, 29·427 and 29·190," respectively.

Corrigenda in the India Monthly Weather Reviews for the year 1914.

TABLES A, B & C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
lxvi	March 1914	B	Khushab	Temperature	15 to 19, 22 and 24.	*For* "52·8, —4·0, 66·0, —2·7, 26·3, 44·4 and 49·1" *read* "53·3, —3·5, 66·2, —2·5, 25·8, 44·9 and 48·6," respectively.
„	Ditto	„	Karachi	Pressure	6	*For* "29·957" *read* "29·960."
lxxii	Ditto	„	Darjiling	Ditto	4 to 7 and 9	*For* "22·978, —·027, 22·933, 23·122 and 22·877" *read* "22·994, —·011, 22·949, 23·138 and 22·893," respectively.
„	Ditto	„	Mukteswar	Temperature	12, 15 to 19, 22 and 24.	*For* "46·7, 37·3, —4·6, 47·1, —4·1, 18·5, 26·0 and 40·5" *read* "46·2, 39·9, —2·6, 48·1, —3·1, 16·5, 28·0 and 38·5," respectively.
„	Ditto	„	Pharijong	Ditto	22	*Insert* "0."
„	Ditto	„	Gartok	Ditto	22 and 23	*For* "13·3 and 24th" *read* "—13·3 and 15th," respectively.
lxxiii	Ditto	„	Ditto	Rainfall	56	*For* "6" *read* "0."
lxxiv	Ditto	„	Kashgar	Pressure	7 and 9	*For* "29·900 and 29·235" *read* "25·900 and 25·235," respectively.
„	Ditto	„	Baghdad	Temperature	16	*For* "—3·5§" *read* "+3·5§."
„	Ditto	„	Bahrein	Ditto	23	*For* "7th" *read* "6th."
xc	April	„	Bassein	Pressure	4 to 7 and 9	*For* "29·908, +·039, 29·871, 29·985 and 29·819" *read* "29·920, +·051, 29·883, 29·997 and 29·831," respectively.
„	Ditto	„	Minbu	Temperature	12	*For* "83·5" *read* "83·0."
„	Ditto	„	Yamethin	Pressure	4 to 7 and 9	*For* "29·269, +·068, 29·875, 29·363 and 29·173" *read* "29·258, +·057, 29·864, 29·352 and 29·162," respectively.
xciii	Ditto	„	Midnapore	Rainfall	50, 52, 53 and 55.	*For* "1·85, —0·12, 3·38 and —1·87" *read* "1·90, —0·07, 3·43 and —1·82" respectively.
xcvii	Ditto	„	Jubbulpore	Wind direction	35	*For* "S 18° E" *read* "S 18° W."
xcviii	Ditto	„	Mangalore	Pressure	7	*For* "29·864" *read* "29·964."
c	Ditto	„	Quetta	Ditto	9	*For* "24·566" *read* "24·536."
„	Ditto	„	Muktesswar	Temperature	12, 15 to 19, 22 and 24.	*For* "55·3, 46·9, —3·4, 56·3, —3·5, 18·9, 35·5 and 42·2" *read* "54·8, 48·9, —1·4, 57·3, —2·6, 16·9, 37·5 and 40·2," respectively.
„	Ditto	„	Darjiling	Pressure	4 to 7 and 9	*For* "22·993, —·011, 22·948, 23·071 and 22·896" *read* "23·009, +·064, 22·964, 23·087 and 22·912," respectively.
cii	Ditto	„	Kerman (*c*)	Ditto	9	*For* "29·290" *read* "24·290."
cxvii	May	„	Rajputana	Rainfall	18 and 20	*For* "0·32 and 0" *read* "0·30 and —0·02," respectively.
„	Ditto	„	Mysore	Ditto	18 and 20	*For* "2·49 and —1·12," *read* "2·47 and —1·14," respectively.
cxviii	Ditto	„	Bassein	Pressure	4 to 7 and 9	*For* "29·828, +·027, 29·792, 29·944 and 29·733" *read* "29·840, +·039, 29·804, 29·956 and 29·745," respectively.
„	Ditto	„	Minbu	Temperature	12	*For* "82·8," *read* "82·3."
„	Ditto	„	Yamethin	Pressure	4 to 7 and 9	*For* "29·212, +·067, 29·816, 29·326 and 29·090" *read* "29·201, +·056, 29·805, 29·315 and 29·079," respectively.
cxxi	Ditto	„	Midnapore	Rainfall	50, 52, 53 and 55	*For* "9·78, +4·73, 9·78 and +4·73" *read* "9·71, +4·66, 9·71 and +4·66," respectively.

Corrigenda in the India Monthly Weather Reviews for the year 1914.

TABLES A, B & C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
cxxii	May 1914	B	Khushab	Temperature	15 to 19, 22 and 24	*For* "74·7, —2·6, 88·0, —3·1, 26·7, 57·7 and 55·4" *read* "75·2, —2·1, 88·3, —2·8, 26·2, 58·2 and 54·9," respectively.
cxxiii	Ditto	„	Patiala	Wind velocity	36	*For* "5·1 †," *read* "*5·1‡."
cxxvii	Ditto	„	Footnote	...	...	*For* "‖ wind less" *read* "‖ 1 wind less."
cxxx	Ditto	„	Mukteswar	Temperature	12, 15 to 19, 22 and 24	*For* "60·3, 52·6, —2·9, 61·8, —3·7, 18·3, 41·6 and 36·9" *read* "59·8, 54·2, —1·3, 62·6, —2·9, 16·7, 43·6 and 34·9," respectively.
„	Ditto	„	Darjiling	Pressure	4 to 7 and 9	*For* "22·987, +·006, 22·942, 23·115 and 22·908" *read* "23·003, +·081, 22·958, 23·131 and 22·924," respectively.
„	Ditto	„	Gartok (c) *	Station	2	*For* "Gartok (C) *," *read* "Gartok (C) †."
cxxxv	Ditto	C	Sirajganj	Rainfall	38, 40, 41, 43, 44 and 46	*For* "9, —1·5, 10·28, +2·17, 10·28 and +2·17" *read* "8, —2·5, 9·92, +1·81, 9·92 and +1·81," respectively.
„	Ditto	„	Cooch Behar	Ditto	38, 40, 41, 43, 44 and 46	*For* "8, —6·3, 6·63, —9·78, 6·66, —9·78 and 2·00" *read* "9, —5·3, 9·86, —6·58, 9·86, —6·58 and 3·20," respectively.
cxxxvii	Ditto	„	Motihari	Ditto	41, 43, 44 and 46	*For* "3·37, +0·56, 3·37 and +0·56" *read* "3·41, +0·60, 3·41 and +0·60," respectively.
cxlii	June	A	Kodaikanal	Temperature	13 and 15	*For* "66·6 and 16·1" *read* "72·4 and 19·9," respectively.
cxlvi	Ditto	B	Bassein	Pressure	4 to 7 and 9	*For* "29·724, —·020 ?, 29·683 ?, 29·857 and 29·538" *read* "29·736, —·013, 29·700, 29·869 and 29·548," respectively.
„	Ditto	„	Yamethin	Ditto	4 to 7 and 9	*For* "29·098, +·005, 29·703, 29·204 and 28·933" *read* "29·087, —·006, 29·692, 29·193 and 28·925," respectively.
clvi	Ditto	„	Mukteswar	Temperature	12	*For* "62·8" *read* "62·3."
„	Ditto	„	Darjiling	Pressure	4 to 7 and 9	*For* "22·925, 0, 22·880, 23·023 and 22·809" *read* "22·941, +·075, 22·896, 23·039 and 22·825, respectively.
clxvii	Ditto	C	Kirmanshah	Hygrometry	32 and 34	*For* "38 and 2·6", *read* "36 and ·275," respectively.
clxxiv	July	B	Bassein	Pressure	4 to 7 and 9	*For* "29·680, —·067, 29·644, 29·810 and 29·471" *read* "29·692, —·055, 29·656, 29·822 and 29·483," respectively.
„	Ditto	„	Minbu	Temperature	12	*For* "81·4" *read* "80·9."
„	Ditto	„	Yamethin	Pressure	4 to 7 and 9	*For* "29·046, —·040, 29·651, 29·149 and 28·911" *read* "29·035, —·051, 29·640, 29·138 and 28·900," respectively.
clxxxi	Ditto	„	Belgaum	Rainfall	52	*For* "+2·24" *read* "26·24."
clxxxiv	Ditto	„	Mukteswar	Temperature	12	*For* "62·3" *read* "61·8."
„	Ditto	„	Darjiling	Pressure	4 to 7 and 9	*For* "22·823, —·090, 22·778, 22·912 and 22·751" *read* "22·839, —·015, 22·794, 22·928 and 22·767," respectively.
ccii	August	„	Yamethin	Ditto	4 to 7 and 9	*For* "29·121, +·013, 29·729, 29·266 and 29·009" *read* "29·110, +·002, 29·718, 29·255 and 28·998," respectively.
ccv	Ditto	„	Midnapore	Rainfall	53 and 55	*For* "45·34 and +5·21" *read* "45·27 and +5·14," respectively.

Corrigenda in the India Monthly Weather Reviews for the year 1914.

TABLES A, B & C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
ccxiv	August 1914	B	Mukteswar	Pressure	6	*For* "22·860§," *read* "22·688."
„	Ditto	„	Darjiling	Ditto	4 to 7 and 9	*For* "22·859, —·094, 22·814, 22·974 and 22·719" *read* "22·575, —·017, 22·830, 22·990 and 22·735," respectively.
„	Ditto	„	Shillong	Ditto	4 and 5	*For* "25·009 and —·027" *read* "24·998 and —·038," respectively.
„	Ditto	„	Busrah	Ditto	6	*For* "9·553," *read* "29·553."
ccxv	Ditto	„	Kerman	Wind direction	25	*For* "37," *read* "31."
ccxix	Ditto	C	Sirajganj	Rainfall	44 and 46	*For* "33·84 and —9·51" *read* "33·28 and —9·87," respectively.
„	Ditto	„	Cooch Behar	Ditto	44 and 46	*For* "75·13 and —30·02" *read* "78·33 and —26·82," respectively.
„	Ditto	„	Motihari	Ditto	44 and 46	*For* "39·67 and —1·64" *read* "39·71 and —1·60," respectively.
ccxx	Ditto	„	Guntur	Temperature	12	*For* "11th" *read* "17th."
ccxxvi	September	A	Pudukkottai	Pressure	7	*For* "30·003," *read* "30·503."
ccxxx	Ditto	B	Yamethin	Ditto	4 to 7 and 9	*For* "29·221, +·036, 29·830, 29·306 and 29·118" *read* "29·240, +·025, 29·819, 29·295 and 29·107," respectively.
ccxxxv	Ditto	„	Jacobabad	Wind velocity	36 and 38	*For* "3·5 and +1·4" *read* "2·9 and +0·8," respectively.
ccxxxviii	Ditto	„	Gilgit	Temperature	15	*For* "3·9" *read* "63·9."
ccxxxix	Ditto	„	Cocanada	Hygrometry	42	*For* "+10" *read* "10?."
„	Ditto	„	Waltair	Ditto	42	*For* "+42," *read* "+4."
„	Ditto	„	Leh	Wind velocity	38	*For* "+0" *read* "+0·6."
ccxl	Ditto	„	Parachinar	Temperature	21	*For* "th" *read* "8th."
„	Ditto	„	Kalabagh	Ditto	13	*For* "9·" *read* "9·7."
„	Ditto	„	Darjiling	Pressure	4 to 7 and 9	*For* "22·981, —·048, 22·936, 23·066 and 22·918" *read* "22·997, +·027, 22·952, 23·082 and 22·934," respectively.
„	Ditto	„	Gangtok	Ditto	8	*For* "30s" *read* "30th."
ccxlii	Ditto	„	Kerman	Temperature	24	*For* "6·5" *read* "64·5."
„	Ditto	„	Tehran	Station	2	*Insert* (e) after station.
„	Ditto	„	Baghdad	Temperature	24	*For* "6" *read* "47·6."
ccxliii	Ditto	„	Ispahan	Wind velocity	39	*For* "9" *read* "7."
„	Ditto	„	Tehran	Ditto	36	*Insert* † before 1·9.
„	Ditto	„	Zanzibar	Rainfall	51	*For* "·10" *read* "2·10."
„	Ditto	„	Ditto	Station	57	*For* "Zanzibar" *read* "Zanzibar."
„	Ditto	„	Footnote	...	...	*Insert* "† mean of 28 days."
ccliv	October	A	Sarain	Pressure	4, 5, 7 and 9	*For* "23·269, 23·207, 23·230 and 23·192" *read* "23·267, 23·205, 23·228 and 23·190," respectively.
„	Ditto	„	Ditto	Temperature	10, 11, 16 to 18, 21 and 22.	*For* "58·0, 39·0, 52·5, 53·9, 43·5, 45·6 and 47·6" *read* "58·2, 39·2, 52·8, 54·0, 43·7, 45·8 and 47·8." respectively.

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TABLES A, B & C—*concld.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
cclv	October 1914.	A	Sarain	Vapour tension	25 and 26	*For* "·238 and ·269" *read* "·239 and ·272," respectively.
„	Ditto	„	Ditto	Humidity	31	*For* "68" *read* "65."
„	Ditto	„	Ditto	Cloud	35 and 36	*For* "4·5 and 4·1" *read* "4·6 and 4·2," respectively.
cclviii	Ditto	B	Yamethin	Pressure	4 to 7 and 9	*For* "29·338, +·060, 29·953, 29·402 and 28·186" *read* "29·327, +·049, 29·942, 29·391 and 28·175," respectively.
„	Ditto	„	Gauhati	Ditto	11	*For* "·462," *read* "362."
cclxv	Ditto	„	Neemuch	Wind direction	25, 32 and 34	*For* "16, 6 and S 34° W" *read* "15, 7 and S 45° W," respectively.
„	Ditto	„	Ditto	Wind velocity	36 and 38	*For* "8·4 and +4·0" *read* "9·4 and +5·0," respectively.
cclxv	Ditto	„	Ditto	Hygrometry	41 to 44	*For* "56, +7, ·486 and +·031" *read* "55, +6, ·482 and +·027," respectively.
cclxvi	Ditto	„	Cuddalore	Pressure	4 and 5	*For* "29·040 and +·067" *read* "29·944 and +·071," respectively.
cclxviii	Ditto	„	Sarain	Ditto	4 and 6	*For* "23·253 and 23·215" *read* "23·252 and 23·214," respectively.
„	Ditto	„	Ditto	Temperature	12, 13, 15 and 17	*For* "43·4, 58·3, 38·9 and 48·6" *read* "43·9, 58·5, 39·1 and 48·8," respectively.
„	Ditto	„	Darjiling	Pressure	4 to 7 and 9	*For* "23·032, —·059, 22·987, 23·100 and 22·920" *read* "23·018, +·016, 23·003, 23·116 and 22·936," respectively.
cclxix	Ditto	„	Sarain	Hygrometry	41 and 43	*For* "83 and ·235" *read* "82 and ·238," respectively.
cclxxi	Ditto	„	Aden	Rainfall	50 and 52	*For* "0·93 and +0·85" *read* "0·95 and +0·87," respectively.
„	Ditto	„	Zanzibar	Hygrometry	42	*For* "—21" *read* "—2."
cclxxxvi	November	„	Yamethin	Pressure	4 to 7 and 9	*For* "29·337, —·022, 29·957, 29·470 and 29·284" *read* "29·326, —·033, 29·946, 29·459 and 29·273," respectively.
ccxc	Ditto	„	Multan	Ditto	5 and 6	*For* "—·016 and 30·014" *read* "—·012 and 30·013," respectively.
ccxcviii	Ditto	„	Darjiling	Ditto	4 to 7 and 9	*For* "23·001, —·096, 22·959, 23·133 and 22·905" *read* "23·020, —·021, 22·975, 23·149 and 22·921," respectively.
cccxi	December	A	Mauritius	Cloud	36	*For* "55" *read* "5·5."
cccxiv	Ditto	B	Yamethin	Pressure	4 to 7 and 9	*For* "29·380, —·013, 30·018, 29·506 and 29·189" *read* "29·374, —·024, 30·007, 29·495 and 29·178," respectively.
cccxviii	Ditto	„	Multan	Ditto	5 and 6	*For* "—·010 and 30·108" *read* "—·004 and 30·114," respectively.
cccxxiv	Ditto	„	Darjiling	Ditto	4 to 7 and 9	*For* "22·989, P, 22·944, 23·033 and 22·853" *read* "23·005, —·011, 22·960, 23·099 and 22·869," respectively.
cccxxvi	Ditto	„	Ispahan	Temperature	16	*For* "+0·1" *read* "—0·1."
cccxxvii	Ditto	„	Zanzibar	Hygrometry	42	*For* "+4" *read* "—4."

(This List of Publications is intended for Permanent Reference, and should be bound up with the Annual Summary.)

Publications of the India Meteorological Department.

(Complete list, inclusive of those publications which are now out of print.)

PUBLICATIONS OF THE INDIA METEOROLOGICAL DEPARTMENT.

The following is a list of the more important publications of the India Meteorological Department:—

The Indian Meteorologist's *Vade Mecum*, Part I, 2nd Edition. (1883) . . . . . Price Rs. 3*	Henry F. Blanford.
The Indian Meteorologist's *Vade Mecum*, Part II. (1877) Price Rs. 5*	Ditto.
Instructions to Observers of the India Meteorological Department, 2nd Edition. (1902) . . . . . Price Rs. 3	Sir John Eliot.
Tables for the reduction of Meteorological Observations in India, 2nd Edition. (1889) . . . . . Price Rs. 2*	Henry F. Blanford.
Handbook of Cyclonic storms in the Bay of Bengal for the use of sailors, 2nd Edition, Vol. I.—Text. (1900) . Price Rs. 4	Sir John Eliot.
Handbook of Cyclonic storms in the Bay of Bengal for the use of sailors, 2nd Edition, Vol. II.—Plates. (1901) . Price Rs. 1-8	Ditto.
Cyclone Memoirs, Part I—Bay of Bengal Cyclone of May 20th to 28th, 1887. (1888) . . . . . Price Re. 1*	Ditto.
Cyclone Memoirs, Part II—Bay of Bengal Cyclone of August 21st to 28th, 1888. (1890) . . . . Price Rs. 3	Ditto.
Cyclone Memoirs, Part III—Bay of Bengal Cyclones of September 13th to 20th, and October 27th to 31st, 1888, and Arabian Sea Cyclone of November 6th to 9th, 1888. (1890) Price Rs. 5	Ditto.
Cyclone Memoirs, Part IV—An enquiry into the nature and course of storms in the Arabian Sea and a catalogue and brief history of all recorded storms in the Arabian Sea from 1842—1889. (1891) . . . . . Price Rs. 3	W. L. Dallas.
Cyclone Memoirs, Part V—Account of three Cyclones in the Bay of Bengal and Arabian Sea during November, 1891. (1893) . . . . . Price Rs. 3*	Sir John Eliot.
Report of the Midnapore and Burdwan Cyclone of the 15th and 16th of October, 1874. (1875) . . . . Price Rs. 3*	W. G. Wilson.
Report of the Vizagapatam and Backergunge Cyclones of October, 1876. (1877) . . . . . Price Rs. 3*	Sir John Eliot.
Report on the Madras Cyclone of May 1877. (1879) Price Rs. 3*	Ditto.
Monthly weather charts of the Bay of Bengal and adjacent sea north of the equator, showing mean pressure, winds and currents. (1886) . . . . . Price Rs. 5*	Henry F. Blanford.
Monthly weather charts of the Arabian Sea and the adjacent portion of the North Indian Ocean, showing mean pressure, winds and currents. (1888) . . Price Rs. 5	Sir John Eliot.
Charts of the Bay of Bengal and adjacent sea north of the equator, showing the specific gravity, temperature and currents of the sea surface. (1887) . . . Price Rs. 1-8	W. L. Dallas.
Climatological Atlas of India (1906). Price Rs. 27 or 36 shillings	Sir John Eliot.
Meteorological Atlas of the Indian seas and the north Indian Ocean. (1908) . Price Rs. 13 or 17 shillings 6 pence	W. L. Dallas.
Daily weather reports and charts of the Indian monsoon area for the years 1893 to 1899 . . Price, each month, Re. 1*	Departmental.
Normal weather or pilot charts of the Indian monsoon area for 8 A.M. for each month, November, 1900 to August, 1908 † Price, each month, Annas 4	Ditto.
Reports on the Meteorology of India for the years 1875—1890 (16 volumes)‡ . . . . . Price each Rs. 10	Ditto.
Indian Meteorological Memoirs, Vol. I, containing :— Part I, comprising— On the winds of Calcutta—An analysis of 10 years' hourly observations of the wind vane and four years' anemograms. The meteorology and climate of Yarkhand and Kashgar, being chiefly a discussion of registers kept by Dr. J. Scully in 1874-75. The diurnal variation of the barometer at Simla. Price Rs. 3*	Henry F. Blanford.
Part II, comprising— Storms in Bengal during the year 1876, accompanied with increased atmospheric pressure and the apparent reversal of the normal diurnal oscillation of the barometer . .	Sir John Eliot.
On the rainfall of Benares considered in relation to the prevailing winds	S. A. Hill.
On the diurnal variation of the barometer at Indian stations, Part I; Calcutta and Hazaribagh . . . Price Rs. 3*	Henry F. Blanford.
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Part II, comprising— Note on the foregoing list of cyclones and on the Gujarat landcyclone of July 11th to 13th, 1881 . . . . . On the temperature of North-Western India . Price Rs. 2	Henry F. Blanford. S. A. Hill.
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Part IV, comprising— Account of the south-west monsoon storms generated in the Bay of Bengal during the years 1877 to 1881 . Price Rs. 2	Ditto.
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† Copies for May and August 1902 are out of print.
‡ Copies for the years 1876, 1878 to 1881, 1884, 1887 and 1890 are out of print.

Continued on page c of this list.

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* Copies of publications to the price of which an asterisk is appended are out of print.

Continued on page 6 of this list.

Memoirs of the Indian Meteorological Department, Vol. XIX :—		Part VII, comprising—	
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Parts I and II, comprising—		Part VIII, comprising—	
A discussion of the anemographic observations recorded at Pachmarhi from September 1883 to April 1887, and at Nagpur from January 1882 to December 1902 . Price Rs. 2	Sir John Eliot.	A further study of relationships with Indian monsoon rainfall Price annas 8	Gilbert T. Walker.
Parts III and IV, comprising—		Part IX, comprising—	
A discussion of the anemographic observations recorded at Port Blair from September 1894 to August 1904 . .	W. A. Harwood.	Correlation in seasonal variations of weather, III. Price annas 8	Ditto.
A discussion of the anemographic observations recorded at Dhubri from November 1889 to May 1896 . Price Rs. 1-8		Part X, comprising—	
Parts V and VI, comprising—		Correlation in seasonal variations of weather, IV, sunspots and rainfall . . . . . Price Rs. 1-8	Ditto.
A discussion of the anemographic observations recorded at Jubbulpore from May 1889 to April 1900 . . .	Ditto.	Part XI, comprising—	
A discussion of the anemographic observations recorded at Belgaum from May 1881 to April 1904 . Price Rs. 1-8		Correlation in seasonal variations of weather, V, sunspots and temperature . . . . . Price Re. 1	Ditto.
Parts VII and VIII, comprising—		Part XII, comprising—	
A discussion of the anemographic observations recorded at Deesa from January 1879 to December 1904 . . .	Ditto.	Correlation in seasonal variations of weather, VI, sunspots and pressure . . . . . Price Re. 1	Ditto.
A discussion of the anemographic observations recorded at Karachi from January 1873 to December 1894 . . . Price Rs. 1-8		Memoirs of the Indian Meteorological Department, Vol. XXII, containing :—	
		Part I, comprising—	
Memoirs of the Indian Meteorological Department, Vol. XX, containing :—		Monthly and annual rainfall normals . . Price Rs. 1-8	Ditto.
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Data of heavy rainfall over short periods in India. Price Re. 1	Ditto.	Indian Daily Weather Report, published in Simla. Monthly subscription Rs. 2.	Ditto.
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The liability to drought in India as compared with that in other countries . . . . . Price annas 8	Gilbert T. Walker.		
Part VI, comprising—			
Potential Gradient at Simla, India . . . Price annas 8	G. C. Simpson.		

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‡ Copies for 1891 to 1905 are out of print.
§ Published continuously about four months after date. Copies for 1891-97, January 1898, and January 1899 to May 1902, 1903 and January and March 1904 are out of print.
‖ These prices include postage in India.

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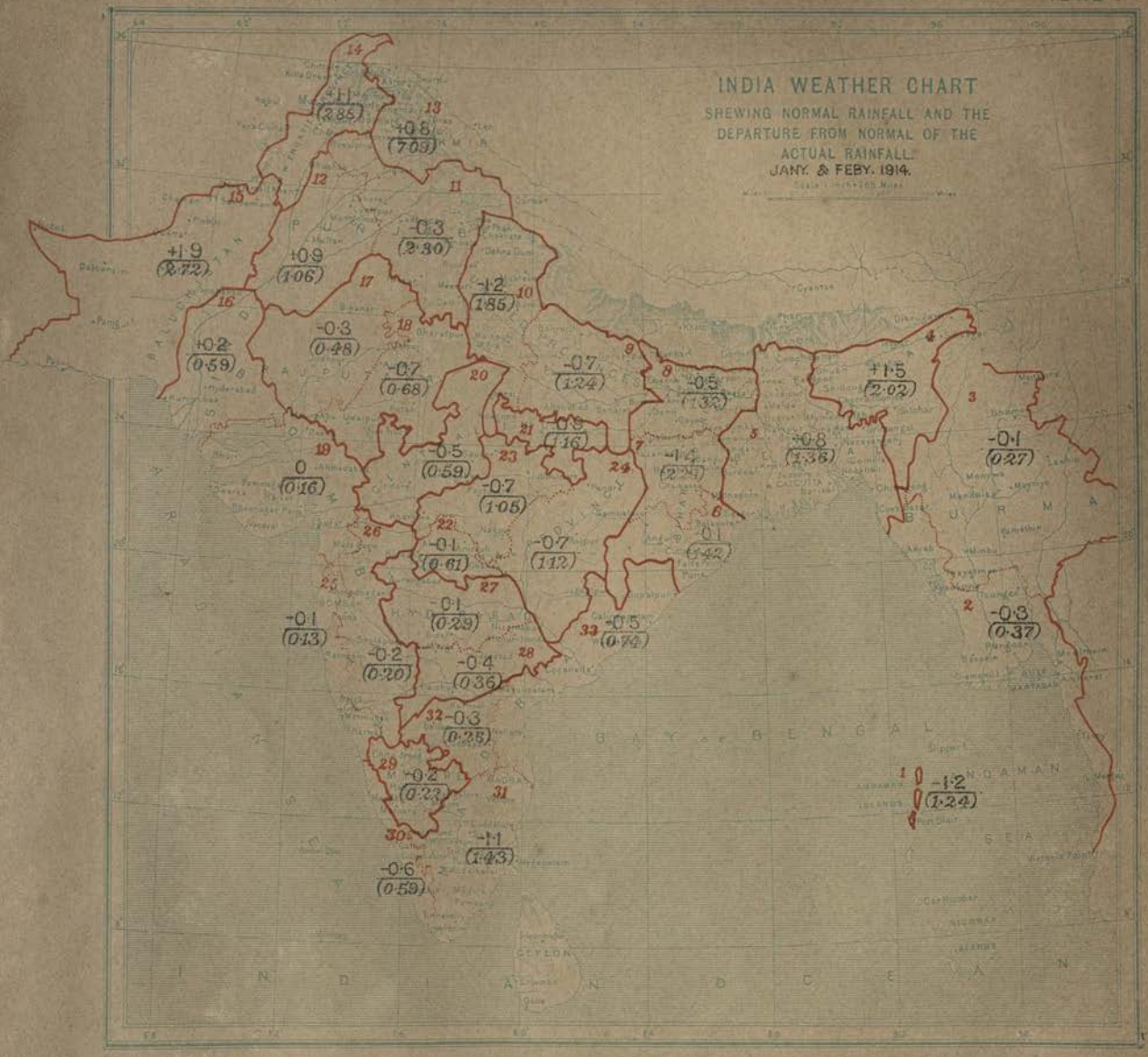
The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North



The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall; the numbers above these give the departures from normal of the average actual rainfall over the divisions.

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13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
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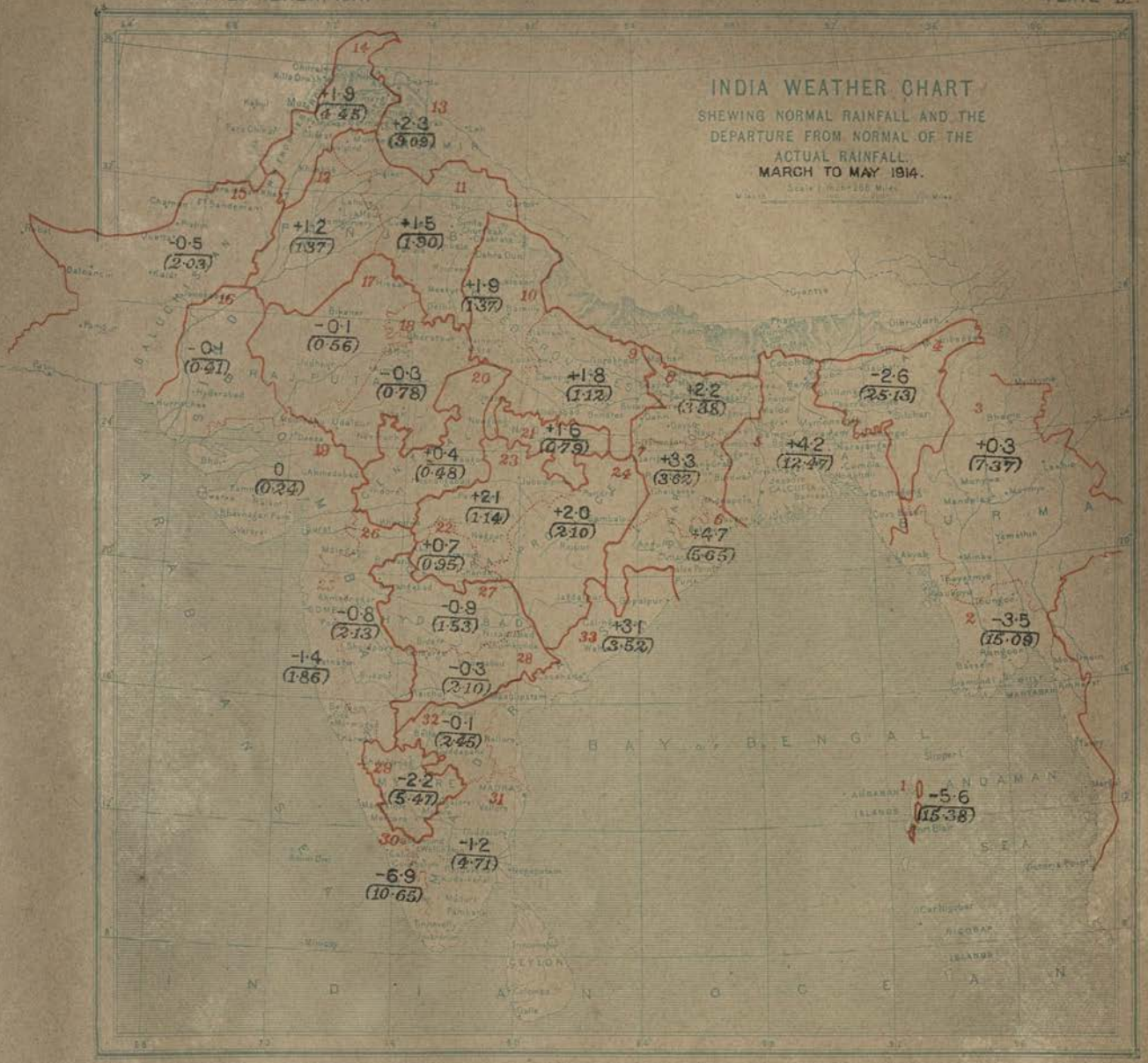
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North



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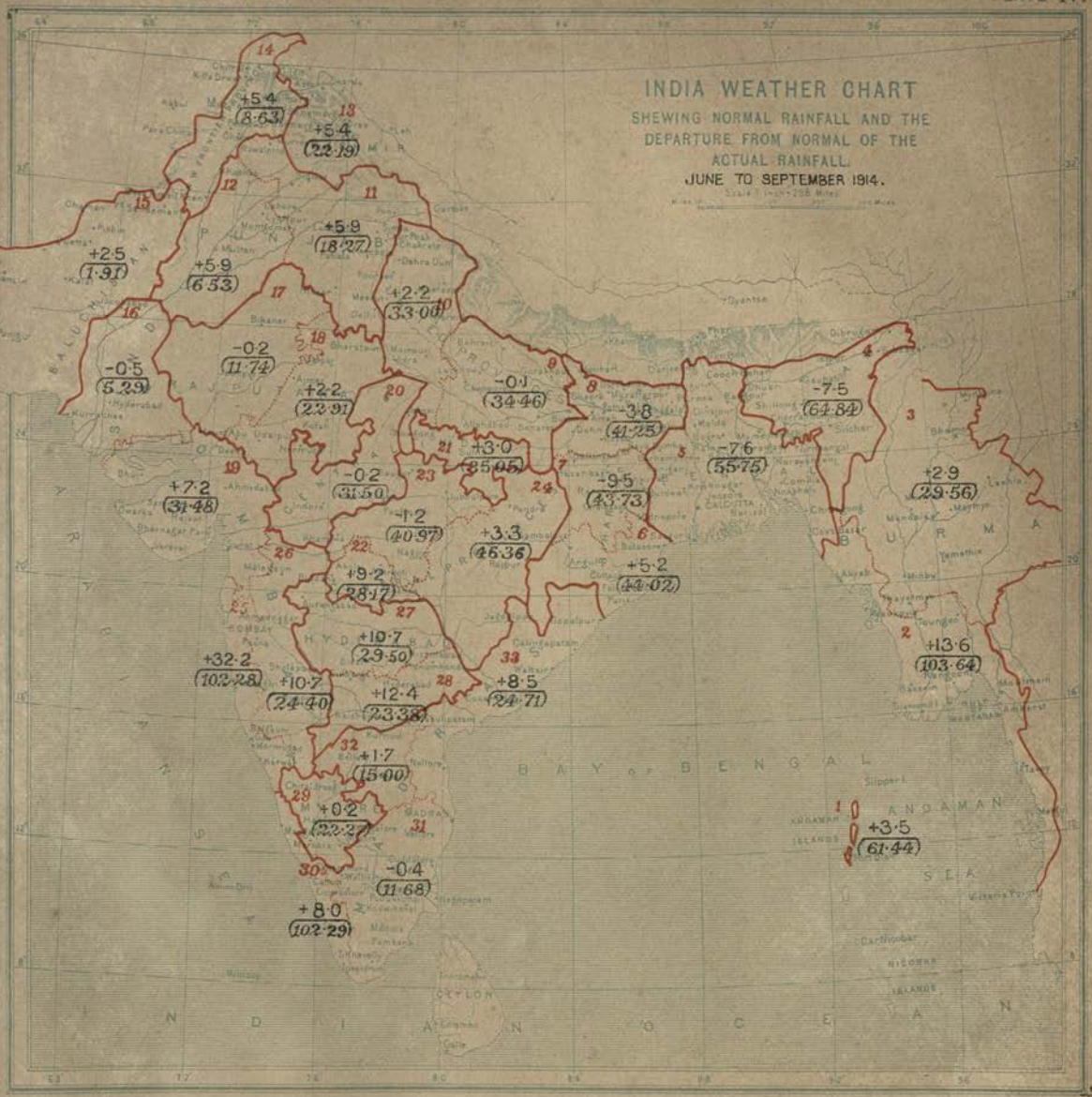

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13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
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19. Gujarat
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22. Berar
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24. Do., East
25. Konkan
26. Bombay, Deccan
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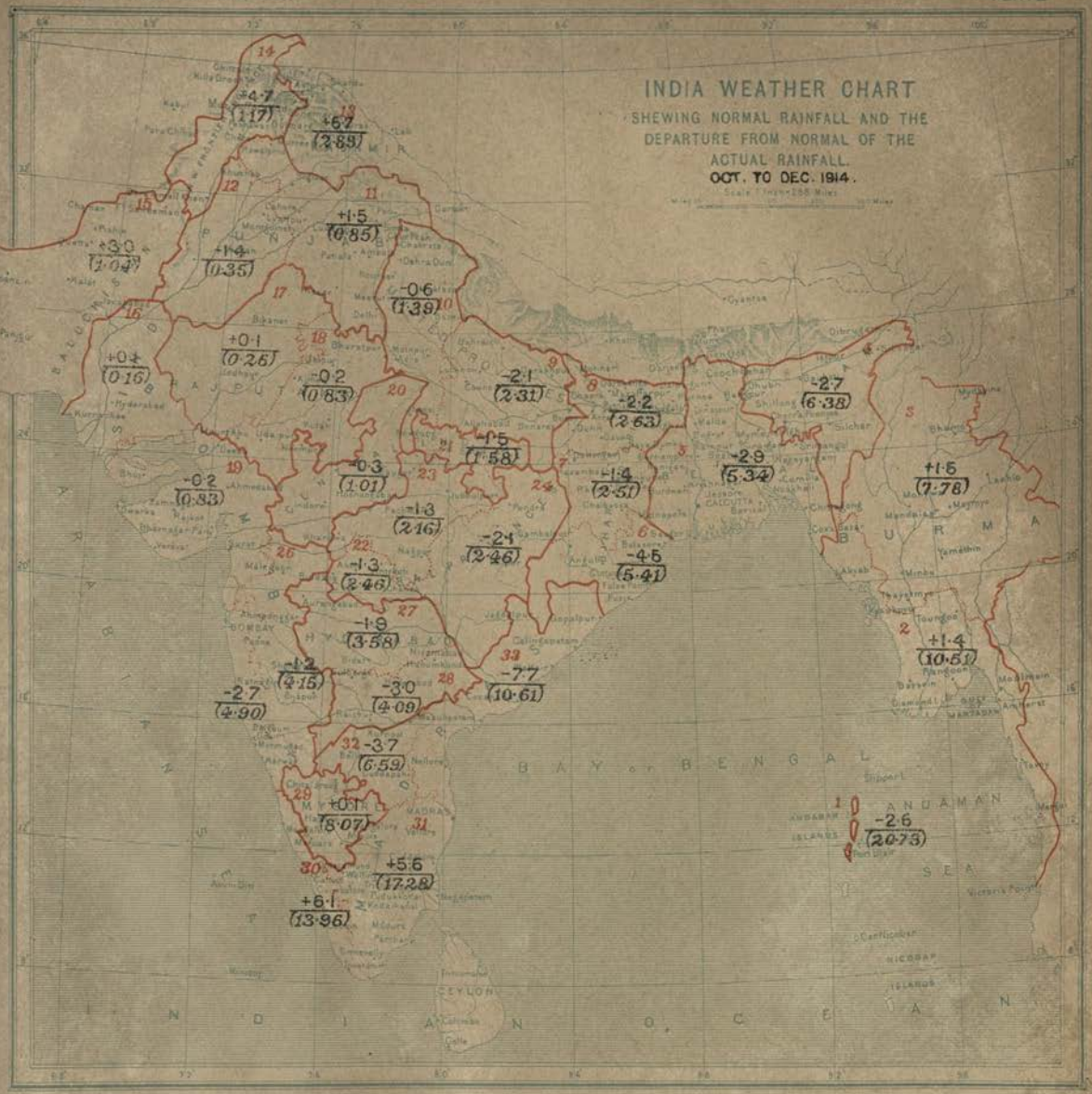

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26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

TRACKS
OF
CYCLONIC STORMS
formed in the Indian Seas
during 1914
BAY OF BENGAL
ANDAMAN SEA
INDIAN OCEAN
ARABIAN SEA
BURMA
CEYLON
MYSORE
MADRAS
BOMBAY
HYDERABAD
CENTRAL PROVINCES
CENTRAL INDIA
RAJPUTANA
PUNJAB
KASHMIR
BALUCHISTAN
SIND
UNITED PROVINCES
CALCUTTA
19th December
2nd October
13th May
3rd
4th
5th
10th July
24th June
15th September
11th
12th
13th
14th
15th
16th
17th
18th
19th
20th
21st
2nd June
11 P.M. 21st
3rd
15th
16th
17th
18th
19th
20th
21st
24th
25th
26th
27th
38th

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

THE INDIA WEATHER REVIEW

FOR THE YEAR

1916

Published by Authority of the Government of India

UNDER THE DIRECTION OF

GILBERT T. WALKER, C.S.I., M.A., Sc.D., F.R.S.,

Director General of Observatories

CALCUTTA
SUPERINTENDENT GOVERNMENT PRINTING, INDIA
1921

ANNUAL SUMMARY, 1916.

INTRODUCTION.

THE present account of the meteorology of 1916 is based on revised data and is intended primarily for scientific reference; for those needing prompt information the Annual Supplement to the India Daily Weather Report was issued on January 2, 1917.

Several systems of territorial division of India have come into use from time to time for meteorological purposes, each having been adopted to meet the needs of some particular set of data. A certain amount of confusion had been found to result from the consequent want of uniformity of boundaries, and, with a view of obviating the inconvenience caused, the Government of India in 1907 authorised the adoption of the following system of division :—

Chief political divisions.	Sub-divisions.
	Bay Islands.
Burma	Lower Burma.
	Upper Burma.
Eastern Bengal and Assam	Assam.
	Eastern Bengal.
Bengal	Bengal.
	Orissa.
	Chota Nagpur.
	Bihar.
United Provinces	United Provinces, East.
	United Provinces, West.
Punjab	Punjab, East and North.
	Punjab, South-west.
North-West Frontier Province	North-West Frontier Province.
	Baluchistan.
Sind	Sind.
Rajputana	Rajputana, West.
	Rajputana, East.
Bombay	Gujarat.
	Konkan.
	Bombay Deccan.
Central India	Central India, West.
	Central India, East.
Central Provinces	Berar.
	Central Provinces, West.
	Central Provinces, East.
Hyderabad	Hyderabad, North.
	Hyderabad, South.
Mysore	Mysore.
Madras	Malabar.
	Madras, Southeast.
	Madras Deccan.
	Madras Coast, North.

From the 1st April 1912 a fresh territorial division of Eastern Bengal and Assam and Bengal was sanctioned by which Eastern Bengal was restored to Bengal, while Orissa, Chota Nagpur and Bihar were constituted into a separate province under the name of Bihar and Orissa. The present arrangement is shewn below :—

Chief political divisions.	Sub-divisions.
Assam	Assam.
Bengal	Bengal.
Bihar and Orissa	Orissa.
	Chota Nagpur.
	Bihar.

In the present review the new division has been adopted throughout.

The system of division is illustrated in Plate I at the end of this Annual Summary, and its relationship to the old system of divisions which was adopted for the tables of the 'Geographical Summary,' given in former issues can be obtained by reference to pages 9 to 14 of Volume III of the Indian Meteorological Memoirs.

The data of Table B in the monthly reviews and in the present annual part are obtained, with a few exceptions, from the observations telegraphed daily to Simla for publication in the Daily Weather Report. The maximum and minimum temperature data of the second class observatories derived from these telegraphic reports and given in Table B, occasionally differ to some slight extent from the corresponding means in Table A. The chief reason for this is that in Table B the daily or 24-hour period is assumed to end at 8 hrs. and in Table A at midnight [except for rainfall the period of which ends at 8 hours], and hence the maximum temperature in Table B for any month of 31 days at any station gives the mean for 31 periods of 24 hours ending at 8 hours of the 31st and in Table A for the same number of 24 hour periods ending at midnight on the 31st, and virtually, therefore, of a monthly period one day in advance of the former. Similarly for months of 28, 29 or 30 days.

SOLAR AND MAGNETIC ACTIVITY.

Report from Kodaikanal Observatory.

Observations.

(*a*) Solar Physics.

Summary of solar observations.—The following table gives the number of observations made at Kodaikanal during each month of the year :—

Table 1.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
A . . .	31	28	31	30	30	24	30	30	26	26	28	28	342
B . . .	3	2	3	2	6	...	1	...	...	...	1	3	21
C . . .	31	27	31	28	29	18	26	26	23	23	26	27	315
D . . .	...	...	...	...	...	...	...	...	...	...	...	...	...
E . . .	31	27	31	29	29	20	28	28	25	26	28	27	329

A—spots and faculae observed. B—spot spectrum observed. C—visual spectroscopic observations made. D—photoheliograms taken. E—spectroheliograms taken.

The year was rather more favourable than usual for spectroscopic observations and prominence records.

At Srinagar 725 spectroheliograms were obtained on 223 days from January 1st to October 25th, when the instruments were dismantled. The conditions here were extremely favourable from the beginning of May to the end of October.

Summary of Sunspot and Prominence Observations.

Sunspots.—The following table shows the monthly numbers of new groups observed at Kodaikanal, the mean daily numbers of spots visible and the distribution between the northern and southern hemispheres :—

TABLE 2.

—	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
New groups	20	26	25	23	23	22	20	19	24	24	22	31	279
Daily numbers	3·4	4·4	3·9	3·9	4·8	3·8	4·0	2·3	2·9	3·6	4·8	5·0	3·9
North	12	11	14	10	11	12	14	15	16	15	12	18	158
South	8	15	11	13	11	10	6	4	8	9	10	15	120
Equator	...	...	...	...	...	...	...	...	...	...	...	...	...

The increase in the number of new groups amounts to 40 per cent compared with the previous year but the rate of increase has diminished.

There were ten days in 1915 and five in 1916 on which no spots were recorded.

There was a preponderance of spots in the northern hemisphere as in 1915, and the mean latitude was 16°·0 for northern spots and 18°·4 for southern.

Disturbances in the spot spectrum have been recorded in a large number of cases, as was to be expected in this part of the solar cycle. There were in the whole year 489 cases of C reversals, 51 of D_3 darkenings and 145 displacements of the C line.

Prominences.—The mean daily areas of prominences in square minutes of arc, derived from photographic records made at Kodaikanal and at Srinagar, are as follows:—

TABLE 3.

—	North.	South.	Total.
1916—January to June	2·06	1·77	3·83
„ July to December ...	1·98	1·65	3·58

The corresponding totals for the year 1915 were, for the first six months 5·27, and for the second six months 5·29. A reduction of area amounting to about 30 per cent is thus shown.

The mean daily number of prominences recorded during the year is 18·9, a reduction compared with 1915 of under 1 per cent.

The distribution east and west of the sun's axis is interesting as indicating a return to the condition of eastern preponderance. There is only a slight excess of east over west in prominence areas and numbers, the percentage east being 50·6 and 50·5 respectively derived from a total of 6129 prominences. Prominences projected on the disc as absorption markings give percentages east of the central meridian as 52·2 for areas and 51·5 for numbers, derived from 2618 prominence markings. D_3 darkenings also preponderate east of the central meridian and of 489 bright reversals of *Ha* on the disc 54·3 per cent were east. Only fifty-eight metallic prominences were recorded during the year and these were more frequent on the west limb than on the east. 438 displacements of *Ha* were observed in the chromosphere and prominences and of these 55 per cent were on the east limb.

On May 26 a very complete record was obtained at Kodaikanal and at Srinagar of an eruptive prominence which rose to the extraordinary height of over 18′, or about half a million miles above the sun—a description of this prominence will be given in Bulletin No. LV.

J. EVERSHED,
Director,
Kodaikanal and Madras Observatories.

Report from the Bombay Observatory.

During the year there were 120 calm days, 233 days of small, 11 days of moderate and 2 days of great disturbance as against 133 calm days, 217 days of small, 13 days of moderate and 2 days of great disturbance in the previous year. On the whole hence the conditions in regard to the intensity and progress of magnetic activity appear to remain practically the same during the two years, indicating a near approach to the maximum of the 11-year cycle.

The following table, prepared in accordance with the suggestions made by the International Commission, Terrestrial Magnetism, represents the magnetic character of each day during the year:—

TABLE 4.—*Representing the magnetic character of the day during the year 1916.*

1916. Date.	Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	0	0	0	1	1	1	2	0	0	1	0	1
2	0	0	1	0	1	0	1	2	1	1	1	1
3	0	0	1	0	1	0	1	1	1	1	1	1
4	1	0	1	0	0	0	1	1	1	0	1	1
5	0	1	1	0	1	0	1	1	1	1	1	0
6	1	0	1	1	1	1	1	1	1	2	1	0
7	0	0	1	1	1	1	0	1	1	1	1	1
8	0	1	2	1	0	1	1	1	1	1	1	0
9	1	1	2	1	1	1	1	1	1	1	1	1
10	1	0	2	0	1	0	1	0	1	1	1	0
11	2	0	1	0	1	1	1	1	1	1	1	0
12	2	1	1	0	1	1	1	1	1	1	1	1
13	1	1	0	0	0	1	0	0	1	1	1	1
14	0	1	0	1	0	0	0	1	0	1	1	1
15	0	1	0	1	0	0	0	0	1	0	1	1
16	0	0	1	1	1	0	0	0	1	0	1	1
17	0	1	1	1	1	1	1	0	1	0	0	1
18	0	1	1	1	0	1	1	0	1	0	1	1
19	0	1	1	1	1	1	1	1	0	1	1	0
20	1	1	1	1	1	1	0	1	0	1	1	0
21	1	0	1	0	1	1	0	1	0	1	0	0
22	1	1	1	1	1	1	0	1	1	1	1	0
23	1	1	0	0	1	1	1	1	1	1	1	0
24	1	1	1	0	1	0	0	1	1	1	0	1
25	1	0	1	2	1	1	0	0	1	1	1	1
26	1	1	1	1	1	1	0	2	1	1	1	0
27	0	1	0	1	0	1	0	2	1	0	1	1
28	1	0	1	1	1	1	0	1	0	0	1	1
29	1	0	2	2	1	1	0	1	0	1	1	1
30	0	...	1	1	1	1	1	1	2	1	1	1
31	0	...	1	...	1	...	1	1	...	0	...	1
Sum	18	16	29	21	24	21	18	26	24	24	26	20

In the above table 0 represents calm day.
" 1 " small disturbance,
" 2 " larger disturbance,

Up to date the day was reckoned from 0 h to 0 h of Bombay local time. In the data published above the day is reckoned from 4 h 51 m to 4 h 51 m of local time corresponding to 0 h to 0 h of Greenwich Mean Time.

The following is a list of days during the year 1916 selected as "quiet" from the Alibag records, as suitable locally for the determination of the magnetic diurnal inequalities:—

TABLE 5.

MONTHS.	Selected quiet days.				
1916.					
January	1	8	18	19	30
February	3	7	11	16	29
March	2	13	16	23	27
April	5	11	13	23	24
May	4	14	15	18	27
June	2	5	16	24	29
July	7	13	15	20	25
August	4	11	16	17	25
September	1	9	19	29	29
October	4	15	16	17	27
November	1	11	17	23	24
December	6	10	11	22	23

The mean values of the magnetic elements obtained from all days in the year 1916 are as follows:—

Mean Easterly Declination . . . 0° 36′ 47″
„ Horizontal Force . . . 0·36867 C.G.S.
„ Vertical Force . . . 0·16790 C.G.S.
„ Inclination . . . . 24° 29′·1

The following table gives the corrected monthly mean values of the several magnetic elements and of the summed ranges of the Horizontal Force.

TABLE 6.

Months.	Absolute values of				Horizontal Force.	
	Horizontal Force.	Vertical Force.	Inclination.	Easterly Declination.	Summed ranges.	Summed ranges (Smoothed.)
1916	C. G. S.	C. G. S.	° ′	° ′ ″	C. G. S.	C. G. S.
January	0·36872	0·16746	24 25·5	0 38 33	0·00183	0·00302
February	0·36878	0·16750	24 25·7	0 38 10	0·00278	0·00300
March	0·36858	0·16762	24 27·3	0 37 57	0·00387	0·00297
April	0·36870	0·16768	24 27·3	0 38 5	0·00413	0·00294
May	0·36867	0·16780	24 28·5	0 37 21	0·00314	0·00295
June	0·36876	0·16785	24 28·4	0 36 39	0·00366	0·00297
July	0·36871	0·16798	24 29·6	0 36 39	0·00326	0·00299
August	0·36861	0·16799	24 30·0	0 36 21	0·00266	0·00302
September	0·36861	0·16810	24 30·9	0 35 49	0·00226	0·00303
October	0·36860	0·16816	24 31·4	0 35 42	0·00310	0·00305
November	0·36864	0·16828	24 32·2	0 35 14	0·00285	0·00309
December	0·36867	0·16836	24 32·6	0 35 1	0·00217	0·00316

TABLE 7.—*Smoothed summed range* of Horizontal Force.*

(Continuation of table 536 in the Colaba Magnetic Data, 1846—1905.)

Unity = 17 ≡ 0·00001 C.G.S.

Months.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1905	294	295	297	300	307	311	322	321	320	320	322	321	311
1906	318	316	314	312	304	294	295	299	301	302	301	301	305
1907	300	299	305	310	315	323	326	323	318	314	318	314	312
1908	317	320	314	308	306	301	298	294	293	294	296	295	303
1909	289	284	290	296	297	301	302	301	298	289	280	274	292
1910	272	272	263	254	252	247	244	244	245	244	244	243	252
1911	239	234	230	227	223	217	212	207	208	208	202	202	216
1912	204	205	204	205	208	211	215	219	222	223	223	224	214
1913	223	224	226	225	222	221	221	220	219	220	222	224	222
1914	226	229	231	231	233	234	235	238	242	246	251	257	238
1915	264	268	274	282	288	290	288	288	294	300	303	308	287
1916	302	300	297	294	295	297	299	302	303	305	309	316	302

* Summed range means sum without regard to sign of the twenty-four ordinates of the diurnal inequality. Smoothed summed ranges are derived by taking overlapping means of twelve consecutive monthly values and reducing them to the proper epoch, so as to eliminate the annual variation.

The range figures of H. F. at Alibag as given above indicate that the maximum of the 11-year cycle appears to have been reached about 1916; and as anticipated in the annual report for 1913, it is likely to be the lowest maximum on record. Conditions of a low maximum, it is well known, usually result in prolonging the duration of the climax making it diffused in character. From the figures of ranges available upto the time of issue of the Observatory annual report for 1916 it was observed that although the maximum of the solar cycle appeared to have been reached and passed about December 1915, it was not improbable that the minor periods may thereafter carry the range figure slightly above this maximum value 308 attained then by the ranges. It will be seen that the figures for October, November and December 1916 do show such a second maximum. Such fluctuations were noted in the previous cycle also to extend over the period 1905-1907, the range figure for July 1905 being 322 and that for July 1907 being 326. It is likely that the means for 1915-1917 will also tell a similar tale.

N. A. F. Moos,
Director,
Bombay and Alibag Observatories.

Solar Radiation.

No observations with the Angstroms electric compensation pyrheliometer were possible during January owing to cloudy skies and from March to the end of the year on account of the absence of officers on war service. For February the data are given below; the values are corrected to local noon, and expressed in grammecalories per square centimetre per minute:—

Maximum	1·46
Minimum	1·35
Mean	1·42
Number of days of observation	4

Nocturnal Radiation.

Observations of the terrestrial radiation thermometers, which are, as a rule, not very reliable, were recorded during the year 1916, at the following stations:—

Srinagar. Jodhpur. Bombay.
Lahore. Calcutta (Alipore) Simla.

The following Table 8 gives the average data of past years for the above stations; and Table 9 the departure from the normal.

TABLE 8.—*Average depression of mean monthly and annual nocturnal radiation temperatures below mean monthly and annual minimum shade temperatures.*

Station.	Number of years observations used.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	18—23	8·6	8·9	10·0	10·5	11·3	11·7	11·1	10·9	12·2	11·9	11·4	11·1	10·8
Simla	24—25	4·3	3·7	3·9	5·5	4·6	3·9	3·1	2·5	4·0	5·3	...	...	4·1
Lahore	39—40	9·6	9·3	9·0	9·2	9·1	8·3	4·0	4·2	6·6	9·8	10·7	10·2	8·2
Jodhpur	19—21	8·9	8·6	8·7	8·2	5·6	2·8	2·3	2·3	4·6	9·0	10·7	9·9	6·8
Calcutta (Alipore)	39—40	7·3	6·9	5·9	4·4	3·1	2·1	1·9	1·9	2·5	4·3	6·3	7·7	4·5
Bombay	41	9·6	9·0	8·1	6·6	4·5	2·9	2·3	2·6	3·2	6·1	9·0	9·9	6·1

TABLE 9.—*Departures from the averages of Table 8 of mean monthly and annual depression of nocturnal radiation temperatures in 1916.*

STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	−0·5	−1·7	−1·3	−0·2	−1·3	−2·5	−4·2	−4·6	−2·9	−1·8	+0·2	−0·2	−1·8
Simla	+1·7	+1·0	+2·1	+0·2	+1·4	−1·1	+1·2	+1·4	+1·8	+1·5	...	...	+1·1
Lahore	−0·5	−0·7	+0·8	−0·7	−0·9	−3·2	−1·9	−1·1	−0·6	−0·8	+0·4	+0·9	−0·7
Jodhpur	+2·0	−2·2	−0·6	−1·3	+0·3	−1·0	−0·9	−0·1	−2·1	−5·2	−4·4	−2·4	−1·5
Calcutta (Alipore) . . .	+2·6	+3·0	+3·7	0	+1·1	−0·1	+1·2	+0·2	+0·2	−0·8	+1·2	+2·6	+1·2
Bombay	+7·7	+7·9	+10·1	+10·9	−0·4	+0·5	−0·2	+1·6	+0·7	−1·6	−4·1	−3·2	+2·5

Temperature of the ground.

Observations of the temperature of the surface of the ground were recorded during the year 1916 at four stations, Lahore, Jaipur, Calcutta (Alipore) and Bombay; and of the temperature under ground at Bombay only.

The thermometers used for the purpose are verified standard mercurial thermometers with attached scales of porcelain, the scale being engraved also on the tube.

At Lahore the surface thermometer is read four times daily; at Jaipur at 10 and 16 hrs., and at Calcutta at 13 hrs. 45 mins. At Bombay the two nearest to the surface are read five times a day, the deeper instruments being read once only.

The thermometers below the surface have their bulbs protected with pointed copper shoes which rest on ground at the bottom of a wooden tube, inserted to the specified depth and projecting six inches above the surface, the upper ends being closed by a cap of metal or wood. Those at depths of five feet or more are attached to the lower ends of stout wooden bars of about half the diameter of the tube.

Those at one foot have a brass ring attached to the top of the wooden frame by which they are lifted; and in all these the lower part of the frame around the bulb has been cut away, and the lower end fitted with the copper shoe above mentioned.

The average monthly data are here given at length, but a paper published by Mr. R. Ll. Jones (Meteorological Memoirs, Vol. XV, Pt. III, 1904), makes it clear that the results of the measurement of underground temperatures lead to inconsistent results when analysed on the lines developed by Lord Kelvin. It may be that this is due to irregularities from percolation of rainfall as well as to imperfections in the mode of measurement.

Under these circumstances a table of departures from the average of past years is more likely to give indications of value than a statement of absolute temperatures recorded; such a table is therefore given below. The number of years included in the averages in the different cases lies between 21 and 27.

TABLE 10.—*Departures from normal of the mean monthly and annual temperatures of the air and of the ground in 1916.*

STATION.		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
LAHORE	Air	+2·0	+0·8	+4·4	+1·6	−2·2	+1·3	−2·7	−2·1	−0·8	+0·6	−2·7	−1·1	0
	Surface	+3·8	+4·9	+5·8	+1·7	−2·3	+0·6	−6·0	−5·7	−0·2	+4·0	+1·5	+1·2	+0·6
JAIPUR	Air	+1·5	−2·4	+3·7	+0·2	−0·2	−1·4	+1·2	−2·5	−1·4	−2·4	−4·2	−2·8	−0·9
	Surface	+2·6	+0·7	+5·9	−1·8	−0·4	−10·2	−2·7	−11·3	−7·7	−9·4	+0·1	+1·3	−2·7
CALCUTTA (ALIPORE)	Air	0	+1·3	+2·7	+1·5	+3·0	−1·0	+1·0	+0·4	+0·7	+1·2	+1·2	−0·1	+1·0
	Surface	+14·8	+17·4	+17·3	+7·4	+13·0	−1·0	+5·3	+0·8	+3·5	+5·1	+9·5	+18·7	+9·3
BOMBAY	Air	+1·4	−1·1	+1·7	+0·8	+0·5	−0·3	+0·2	+1·0	+0·7	−0·3	+0·9	+0·1	+0·5
	1 inch deep	+0·8	−1·3	+1·6	+1·0	+0·6	+0·2	+1·2	+1·0	+0·9	+0·3	+1·2	+0·2	+0·6
	9 inches „	+1·3	−0·3	+1·4	+1·5	+1·5	+1·6	+2·3	+1·9	+1·9	+1·5	+2·4	+1·7	+1·6*
	1 foot 8 inches deep	+2·2	+1·2	+1·4	+2·5	+2·5	+2·3	+2·7	+2·4	+2·8	+2·1	+3·1	+3·2	+2·4
	5 feet deep	+1·3	+1·3	+1·6	+1·6	+1·6	+1·4	+1·4	+1·5	+2·0	+1·6	+1·8	+2·0	+1·6
	11 „ „	+0·5	+0·8	+1·3	+1·3	+1·1	+0·5	−0·2	−0·6	−0·4	+0·1	+0·6	+0·5	+0·5

*In the case of the 9" deep thermometer the normals have been derived from the readings of the old thermometer which was broken and replaced by a new one on 27th March 1914.

Temperature.

The methods of exposing the thermometers at observatories in India were described in pages 18-19 of the Annual Report for 1890.

The method of deducing the daily and monthly means from the observed readings of the instruments was described in page 7 of the Monthly Weather Review for January 1916.

The departures from normal of the mean temperature of each month given in Table A of the Monthly Weather Reviews are deduced by a comparison of the actual monthly means with the normal monthly means given in the "Indian Meteorological Memoirs," Volume XVII, pages 16 to 24.

The departures obtained by a comparison of these normal means with the actual monthly means in Table A of the Monthly Weather Reviews for the year are given in Table 11.

In Table B, published in each Monthly Review, the mean temperature of the day is calculated, as in the Daily Weather Report, by the formula:—daily means $= \frac{\text{maximum} + \text{minimum}}{2}$. It differs from the true daily mean by amounts varying slightly with the season. In Table B of the Monthly Weather Reviews of the year 1916 are given the departure from normal of the monthly means of daily maximum and minimum temperatures, as well as the departures of the monthly means of daily mean temperature given by the formula ½ (maximum + minimum).

In the great majority of cases the normals of maximum and minimum temperatures for the stations in Table B, are derived from the data of the 33 year period 1878—1910; in the case of some of the most recently started observatories the period is shorter, but it is never less than five years. The normals are given in the "Indian Meteorological Memoirs," Volume XXII, Part III, pages 426—457.

Tables 12 to 17 give summaries of the temperature departure data for each month of the year 1916 and for the whole year. In the first set of tables (Tables 12, 13 and 14) the departure data are given for the 15 chief political divisions, and in the last three tables (Tables 15 to 17) the data are given for the 33 sub-divisions.

TABLE 11.—*Departure from normal of monthly and annual mean air temperature at first and second class observatories in 1916.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
BENGAL	Calcutta	0	+1·3	+2·7	+1·5	+3·0	−1·0	+1·0	+0·4	+0·7	+1·2	+1·2	−0·1	+1·0
PUNJAB	Lahore	+2·0	+0·8	+4·4	+1·6	−2·2	+1·3	−2·7	−2·1	−0·3	+0·6	−2·7	−1·1	0
RAJPUTANA	Jaipur	+1·5	−2·4	+3·7	+0·2	−0·2	−1·4	+1·2	−2·5	−1·4	−2·4	−4·2	−2·8	−0·9
BOMBAY	Bombay	+1·4	−1·1	+1·7	+0·8	+0·5	−0·3	+0·9	+1·0	+0·7	−0·3	+0·9	+0·1	+0·5
MYSORE	Bangalore	−0·2	+1·6	+1·3	+1·7	+0·1	−1·5	+0·9	−0·3	0	−0·1	+0·2	−0·6	+0·3
MADRAS	Madras	−0·4	+1·2	−0·8	+1·6	−1·1	+0·5	−2·0	+0·4	+0·8	+0·6	+0·9	+0·2	+0·1
HILL STATIONS, EXCLUDING KASHMIR AND BALUCHISTAN.	Katmandu	+0·4	+3·0	+5·0	+2·6	+3·3	+0·2	−0·7	+0·9	+0·3	+2·2	+0·8	−2·4	+1·3
EXTRA INDIA	Seychelles	+1·2	+0·5	+2·2	+2·6	+0·9	+1·7	+0·9	0	−0·3	−0·1	+0·3	+0·9	+0·9
	Mauritius	−1·1	−0·3	0	−0·4	+0·6	+0·2	+2·0	−0·4	−0·5	−1·1	−1·2	−1·8	−0·7

TABLE 12.—*Departure of the mean monthly and annual maximum temperature from the normal in the fifteen chief political divisions of India in 1916, as given by all observatories.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma	−1·9	−0·3	+0·6	−0·2	+1·3	−1·0	+0·9	+0·7	−0·3	−0·6	−1·0	−2·1	−0·3
Assam	+0·3	+1·0	+3·0	−2·4	+0·8	+1·8	−1·9	+0·4	−0·4	−1·7	+0·1	−1·1	0
Bengal	−0·1	+1·4	+3·1	−2·3	+3·1	−1·6	−0·3	−0·3	−0·3	−0·9	−0·3	−1·2	0
Bihar and Orissa	+0·1	+1·6	+3·7	+0·2	+3·2	−4·9	0	0	−0·2	−1·7	−1·5	−1·4	−0·1
United Provinces	+1·7	+0·2	+3·7	+0·8	+1·9	−5·9	−1·3	−1·0	−2·0	−2·7	−3·0	−1·6	−0·8
Punjab	+4·3	+0·1	+6·2	+1·5	−1·9	−2·2	−2·0	−3·4	−2·1	−2·3	−3·0	+0·1	−0·4
North-West Frontier Province	+2·8	−2·3	+6·3	+1·5	−3·1	+0·7	+0·5	−4·9	−1·3	+0·4	−2·7	+0·4	−0·1
Sind	+2·4	−1·5	+3·8	+0·3	−0·5	+0·2	+0·8	−0·7	−0·5	−0·5	−2·5	−0·5	+0·1
Rajputana	+3·8	−1·0	+5·4	−0·3	−0·6	−3·5	+2·0	−2·2	−2·3	−6·3	−4·8	−0·8	−0·9
Bombay	+1·2	−1·8	+2·4	−0·1	+0·7	−1·5	+1·6	−0·7	−0·3	−2·3	−2·6	−1·2	−0·4
Central India	+1·8	−1·1	+3·9	+0·6	+1·5	−7·3	+1·7	−0·7	−0·3	−4·1	−3·6	−1·7	−0·8
Central Provinces	+0·1	−1·3	+1·9	+0·9	+0·8	−7·0	+1·6	−0·1	−0·1	−2·8	−2·1	−1·4	−0·8
Hyderabad	−0·3	+0·1	+1·3	+1·3	+0·3	−4·2	−0·8	−0·1	+0·3	−2·6	−3·1	−2·0	−0·8
Mysore	−0·7	0	+1·0	+1·6	+0·7	−3·8	+2·1	−0·7	−0·8	−1·4	−2·1	−1·5	−0·5
Madras	−0·1	+0·4	+0·1	+0·7	−0·2	−1·4	−1·4	−0·9	−1·1	−1·2	−0·2	−0·4	−0·5

TABLE 13.—*Departure of the mean monthly and annual minimum temperature from the normal in the fifteen chief political divisions of India in 1916.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma	−0·6	−0·1	+0·1	−0·3	+0·2	−0·7	−0·2	+0·2	0	−0·2	−0·5	−0·6	−0·2
Assam	+1·5	+1·2	+1·8	+0·5	+0·6	+1·1	−1·0	−0·1	−0·1	+0·9	+2·5	+0·3	+0·8
Bengal	−0·7	+0·2	+1·3	−0·5	+1·9	−0·5	−0·6	−0·3	0	+1·9	+2·1	−0·4	+0·4
Bihar and Orissa	−1·6	0	+0·7	+1·5	+1·6	−1·5	−0·3	+0·3	+0·3	+3·6	+2·5	−1·3	+0·5
United Provinces	−1·5	+0·1	+2·3	+2·9	−0·6	−1·9	−1·0	−0·6	+0·6	+3·2	−1·6	−2·3	0
Punjab	+0·7	+0·2	+3·7	+3·9	−2·3	+1·6	−1·0	−1·1	+0·7	+2·0	−3·3	−2·4	+0·2
North West Frontier Province	+0·7	+0·5	+2·7	+2·9	−2·5	+1·9	+1·1	−0·1	+1·2	+3·7	−2·2	−2·7	+0·6
Sind	+2·6	−1·8	+2·3	+1·6	−1·0	+1·7	+0·9	+1·5	+2·0	+1·8	−3·9	−1·6	+0·5
Rajputana	+1·4	−2·3	+2·9	+2·7	−2·0	−1·5	+0·8	−0·6	+0·4	+0·4	−3·8	−3·9	−0·5
Bombay	+1·8	−0·6	+1·4	+0·4	+0·2	−0·8	+0·5	+0·4	+0·3	+1·1	+1·0	−1·4	+0·4
Central India	−1·0	−0·6	+1·5	+2·6	+0·3	−3·2	+0·3	+0·3	+1·3	+3·6	−1·1	−2·5	+0·1
Central Provinces	−0·8	0	−0·1	+2·6	+0·7	−2·7	+0·2	+0·3	+0·7	+4·7	+3·1	−1·1	+0·6
Hyderabad	+1·0	+0·9	−0·1	+0·9	+0·3	−1·9	+0·5	+0·9	+0·6	+2·5	+4·2	−0·5	+0·8
Mysore	−0·7	+1·1	+0·5	+0·9	+0·4	−0·5	+0·9	+0·6	+0·5	+0·5	+1·2	−0·7	+0·4
Madras	−0·7	+0·4	−0·4	+1·0	+0·2	−0·4	−0·5	+0·3	+0·1	+0·6	+1·4	−0·5	+0·1

TABLE 14.—*Departure of the mean monthly and annual temperature from the normal in the fifteen chief political divisions of India in 1916.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma	−1·2	−0·2	+0·4	−0·3	+0·8	−0·8	+0·4	+0·5	−0·1	−0·4	−0·8	−1·3	−0·3
Assam	+0·9	+1·1	+2·4	−1·0	+0·7	+1·5	−1·5	+0·2	−0·2	−0·4	+1·3	−0·4	+0·4
Bengal	−0·4	+0·8	+2·2	−1·4	+2·5	−1·0	−0·5	−0·3	−0·2	+0·5	+0·8	−0·8	+0·2
Bihar and Orissa	−0·9	+0·8	+2·2	+0·8	+2·4	−3·2	−0·2	+0·1	+0·1	+1·0	+0·5	−1·3	+0·2
United Provinces	+0·1	+0·2	+3·0	+1·9	+0·6	−3·9	−1·1	−0·8	−0·7	+0·3	−2·3	−2·0	−0·4
Punjab	+2·5	+0·2	+4·9	+2·7	−2·1	−0·3	−1·5	−2·2	−0·7	−0·1	−3·1	−1·2	−0·1
North-West Frontier Province	+1·3	−0·9	+4·5	+2·3	−2·8	+1·3	+0·8	−2·5	−0·1	+2·1	−2·5	−1·1	+0·2
Sind	+2·5	−1·7	+3·0	+0·9	−0·8	+0·9	+0·8	+0·4	+0·7	+0·7	−3·2	−1·0	+0·3
Rajputana	+2·6	−1·7	+4·1	+1·2	−1·3	−2·5	+1·4	−1·4	−0·9	−2·9	−4·3	−2·4	−0·7
Bombay	+1·5	−1·2	+1·9	+0·1	+0·5	−0·9	+1·1	−0·1	+0·2	−0·6	−0·8	−1·3	0
Central India	+0·1	−0·9	+2·7	+1·6	+0·9	−5·2	+1·0	−0·2	+0·5	−0·2	−2·8	−2·1	−0·3
Central Provinces	−0·3	−0·6	+0·9	+1·7	+0·8	−4·8	+0·9	+0·1	+0·3	+0·9	+0·5	−1·3	−0·1
Hyderabad	+0·4	+0·5	+0·6	+1·1	+0·3	−3·0	−0·2	+0·4	+0·5	−0·1	+0·5	−1·3	0
Mysore	−0·7	+0·5	+0·7	+1·3	+0·5	−2·1	+1·5	−0·1	−0·1	−0·5	−0·4	−1·1	0
Madras	−0·4	+0·4	−0·1	+0·8	0	−0·9	−1·0	−0·3	−0·5	−0·3	+0·6	−0·4	−0·2
Mean of India	+0·5	−0·2	+2·1	+0·9	+0·3	−1·9	+0·1	−0·4	−0·1	−0·2	−1·0	−1·3	−0·1

TABLE 15.—*Departure of the monthly and annual maximum temperature from the normal in 33 sub-divisions of India in 1916.*

SUB-DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
1. Bay Islands	−1·3	−1·2	0	+1·6	−0·7	−0·4	+0·7	+0·1	+0·1	−0·9	−1·7	−1·9	−0·5
2. Lower Burma	−2·7	−1·5	−0·5	+0·1	+0·2	−1·8	+1·4	+0·7	−0·5	+0·1	−1·7	−1·9	−0·7
3. Upper Burma	−0·9	+0·8	+1·8	−0·5	+2·6	−0·1	+0·4	+0·8	−0·1	−1·5	−0·4	−2·2	+0·1
4. Assam	+0·3	+1·0	+3·0	−2·4	+0·8	+1·8	−1·9	+0·4	−0·4	−1·7	+0·1	−1·1	0
5. Bengal	−0·1	+1·4	+3·1	−2·2	+3·1	−1·6	−0·3	−0·3	−0·3	−0·9	−0·5	−1·2	0
6. Orissa	−0·2	+0·7	+1·4	−0·3	+1·4	−4·1	+1·0	+0·1	+0·3	−1·3	−1·1	−0·7	−0·2
7. Chota Nagpur	−0·3	+3·1	+5·4	+2·1	+3·5	−7·0	+0·7	−0·2	+0·3	−2·1	−1·7	−1·7	+0·2
8. Bihar	+0·4	+1·3	+4·2	−1·1	+4·5	−4·4	−1·4	0	−0·3	−1·7	−1·6	−1·8	−0·2
9. United Provinces, East	+1·0	+0·2	+3·1	+0·2	+2·3	−6·7	−1·7	−0·9	−1·7	−1·7	−2·7	−1·7	−0·9
10. Do. do. West	+2·8	+0·2	+3·7	+1·4	+1·4	−4·9	−0·8	−1·2	−2·5	−3·6	−3·4	−1·4	−0·7
11. Punjab, East and North	+3·5	+0·4	+6·1	+1·9	−1·3	−2·9	−2·1	−2·9	−2·6	−2·8	−2·0	+0·1	−0·4
12. Punjab, Southwest	+3·9	−0·7	+6·8	+0·7	−3·3	−0·4	−1·6	−4·7	−1·0	−0·8	−3·1	0	−0·4
13. Kashmir	+3·7	+2·8	+5·0	+4·0	−3·2	+3·4	−1·4	−1·0	+1·1	+4·7	−1·8	+0·9	+1·5
14. North-West Frontier Province	+2·8	−2·3	+6·3	+1·5	−3·1	+0·7	+0·5	−4·9	−1·3	+0·4	−2·7	+0·4	−0·1
15. Baluchistan	+4·3	−5·1	+5·0	−2·3	−4·1	−4·1	+2·0	+0·9	+2·5	+0·4	−6·2	+2·1	−0·4
16. Sind	+2·4	−1·5	+3·8	+0·3	−0·5	+0·2	+0·3	−0·7	−0·5	−0·5	−2·5	−0·5	+0·1
17. Rajputana, West	+4·3	−0·9	+6·1	−0·7	−0·9	−1·7	+2·1	−0·7	−2·1	−7·3	−5·6	−0·3	−0·6
18. Do. East	+3·3	−1·1	+4·9	0	−0·4	−4·8	+2·0	−3·1	−2·5	−5·9	−4·6	−1·0	−1·1
19. Gujarat	+2·6	−2·5	+3·7	−0·7	+1·3	−0·5	+2·2	−1·3	−0·4	−2·3	−1·8	−0·5	0
20. Central India, West	+2·0	−0·9	+4·5	+0·7	+2·2	−4·9	+2·7	−0·9	+0·7	−4·4	−3·8	−0·5	−0·2
21. Do. do. East	+0·5	−1·4	+3·4	+0·5	+0·7	−9·7	+0·7	−0·5	−1·3	−3·7	−4·0	−2·7	−1·5
22. Berar	+0·2	−1·5	+2·3	+0·7	+1·8	−5·0	+1·2	0	−0·2	−2·7	−2·0	−0·9	−0·5
23. Central Provinces, West	+0·3	−1·7	+1·8	+0·2	+0·5	−7·7	+1·8	−0·3	−0·1	−3·4	−2·7	−1·7	−1·1
24. Do. do. East	−0·3	−0·2	+1·6	+2·5	+0·8	−7·4	+1·5	+0·2	−0·1	−1·8	−1·3	−1·4	−0·5
25. Konkan	+0·2	−1·8	+1·0	+0·3	−0·5	−1·6	+0·2	+0·1	−0·5	−2·3	−3·0	−1·7	−0·6
26. Bombay Deccan	−0·3	−1·2	+1·7	+0·5	+0·8	−2·8	+1·9	−0·2	−0·2	−2·4	−3·4	−2·2	−0·7
27. Hyderabad, North	−0·4	−0·3	+1·6	+1·4	+0·7	−4·4	−0·7	−0·3	−0·5	−2·1	−3·0	−1·2	−0·8
28. Do. South	−0·1	+0·4	+1·0	+1·3	+0·1	−4·0	−0·9	0	+0·5	−2·9	−3·2	−2·7	−1·0
29. Mysore	−0·7	0	+1·0	+1·6	+0·7	−3·8	+2·0	−0·7	−0·8	−1·4	−2·1	−1·5	−0·5
30. Malabar	+0·8	−1·2	−0·1	+0·9	+0·2	−1·3	+0·8	+0·3	−0·5	−0·8	−1·0	−0·3	−0·1
31. Madras, Southeast	−0·3	+0·6	+0·3	+0·8	−0·4	−0·9	−2·0	−1·3	−1·7	−0·9	+1·1	−0·2	−0·4
32. Do. Deccan	−0·2	−0·5	−0·1	+1·0	−0·1	−1·6	−0·9	−1·5	−0·7	−2·7	−2·5	−1·3	−1·0
33. Do. Coast, North	−0·2	+1·5	+0·1	+0·2	−0·2	−2·3	−2·4	−0·6	−0·4	−1·5	−0·8	−0·1	−0·6

TABLE 16.—*Departure of the monthly and annual minimum temperature from the normal in 33 sub-divisions of India in 1916.*

SUB-DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
1. Bay Islands	−2·8	−2·2	−0·5	+1·4	−0·5	−0·2	−0·6	+0·1	−0·2	+0·3	−0·2	−1·3	−0·6
2. Lower Burma	−0·7	−0·6	−0·7	−0·4	−0·3	−1·3	−0·1	+0·2	−0·3	0	−2·0	−1·5	−0·7
3. Upper Burma	+0·7	+0·5	+0·9	−0·3	+0·9	0	−0·3	+0·2	+0·3	−0·5	+0·9	+0·3	+0·3
4. Assam	+1·5	+1·2	+1·8	+0·5	+0·6	+1·1	−1·0	−0·1	−0·1	+0·9	+2·5	+0·3	+0·8
5. Bengal	−0·7	+0·2	+1·3	−0·5	+1·9	−0·5	−0·6	−0·3	0	+1·9	+2·1	−0·4	+0·4
6. Orissa	−1·3	−1·0	−0·7	+0·8	+1·1	−1·7	+0·1	+0·5	+0·1	+2·4	+3·7	−1·6	+0·2
7. Chota Nagpur	−2·6	+0·6	+2·1	+2·2	+2·1	−2·5	−0·1	+0·1	+0·4	+4·5	+3·3	−1·8	+0·7
8. Bihar	−1·6	+0·3	+0·7	+1·4	+1·5	−0·9	−0·7	+0·2	+0·4	+4·1	+1·2	−0·6	+0·5
9. United Provinces, East	−1·3	+0·8	+2·2	+2·7	−0·1	−1·8	−1·0	−0·6	+0·3	+4·5	−0·9	−1·3	+0·3
10. United Provinces, West	−1·7	−0·6	+2·3	+3·2	−1·2	−1·9	−1·0	−0·7	+1·0	+1·6	−2·4	−3·6	−0·4
11. Punjab, East and North	−0·1	+0·3	+3·5	+4·2	−1·7	−1·3	−1·5	−1·0	+0·6	+1·9	−3·3	−2·7	+0·1
12. Punjab, Southwest	+3·6	−0·4	+4·1	+3·5	−3·7	+2·5	+0·4	−1·2	+1·1	+2·4	−3·2	−1·9	+0·6
13. Kashmir	+2·1	+4·2	+3·1	+3·6	−1·8	+5·2	+0·7	+1·7	+0·7	+3·4	−1·7	−1·6	+1·6
14. North-West Frontier Province	+0·7	+0·5	+2·7	+2·9	−2·5	+1·9	+1·1	−0·1	+1·2	+3·7	−2·2	−2·7	+0·6
15. Baluchistan	+2·2	−2·7	+2·5	+2·7	−0·2	−0·9	+0·6	+3·7	+2·7	−2·3	−8·7	−3·5	−0·3
16. Sind	+2·6	−1·8	+2·3	+1·6	−1·0	+1·7	+0·9	+1·5	+2·0	+1·8	−3·9	−1·6	+0·5
17. Rajputana, West	+1·7	−2·5	+2·7	+1·5	−3·0	−1·1	+0·7	−0·3	0	+1·1	−2·7	−4·0	−0·5
18. Rajputana, East	+1·1	−2·3	+3·0	+3·5	−1·3	−1·8	+0·9	−0·8	+0·7	+0·2	−4·2	−3·9	−0·4
19. Gujarat	+2·8	−1·2	+2·2	+0·7	+0·3	+0·3	+0·7	+0·3	+1·2	+1·0	−1·8	−2·0	+0·4
20. Central India, West	+0·9	−0·3	+2·3	+2·9	+1·1	−1·7	+0·9	+0·9	+1·7	+2·5	−1·1	−1·7	+0·7
21. Central India, East	−3·0	−1·0	+0·5	+2·3	−0·5	−4·7	−0·3	−0·4	+0·9	+4·7	−1·1	−3·3	−0·5
22. Berar	+0·1	−0·2	+0·8	+2·2	+0·9	−1·6	+0·7	+0·9	+1·2	+4·9	+4·8	−0·4	+1·2
23. Central Provinces, West	−1·3	−0·2	−0·6	+2·4	+0·4	−3·1	+0·1	+0·1	+0·5	+4·7	−1·8	−1·2	+0·3
24. Central Provinces, East	−0·6	+0·7	−0·2	+3·3	+1·2	−3·0	−0·2	+0·3	+0·4	+4·4	+4·2	−1·7	+0·7
25. Konkan	+1·1	−0·5	+1·5	+0·1	−0·9	−1·1	+0·3	+0·7	0	+0·2	+1·7	−0·6	+0·2
26. Bombay Deccan	+0·9	−0·2	+0·3	+0·3	+0·9	−0·6	+0·5	+0·5	+0·7	+1·9	+4·2	−1·1	+0·7
27. Hyderabad, North	+0·8	+0·9	+0·3	+1·3	+1·1	−1·7	+1·2	+1·2	+1·4	+3·1	+4·5	−0·2	+1·2
28. Hyderabad, South	+1·1	+0·9	−0·3	+0·5	−0·4	−2·0	−0·1	+0·7	+0·5	+2·0	+3·9	−0·7	+0·5
29. Mysore	−0·7	+1·1	+0·5	+0·9	+0·4	−0·5	+0·9	+0·6	+0·5	+0·5	+1·2	−0·7	+0·4
30. Malabar	−1·0	+0·3	+1·3	+0·7	−0·1	−0·7	−0·6	+0·6	−0·1	−0·6	−0·1	−1·5	−0·1
31. Madras, Southeast	−1·3	−0·2	0	+1·5	+0·5	+0·3	−0·7	+0·3	+0·1	+0·4	+1·0	−0·4	+0·1
32. Madras Deccan	+0·6	+2·1	−0·9	+1·2	+0·2	−0·4	−0·3	+0·8	0	+1·4	+3·9	−0·1	+0·7
33. Madras Coast, North	−0·2	+0·7	−1·4	+0·2	−0·1	−1·4	−1·1	+0·4	+0·4	+1·0	+2·2	−0·1	+0·1

TABLE 17.—*Departure of the mean monthly and annual temperature from the normal in 33 sub-divisions of India in 1916.*

SUB-DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
1. Bay Islands	−2·3	−1·7	−0·3	+1·5	−0·6	−0·3	+0·1	+0·1	−0·1	−0·3	−0·9	−1·6	−0·5
2. Lower Burma	−2·2	−1·1	−0·6	−0·1	−0·1	−1·5	+0·7	+0·5	−0·4	+0·1	−1·9	−1·7	−0·7
3. Upper Burma	−0·1	+0·7	+1·3	−0·4	+1·7	−0·1	+0·1	+0·5	+0·1	−1·0	+0·3	−0·9	+0·2
4. Assam	+0·9	+1·1	+2·4	−0·9	+0·7	+1·5	−1·5	+0·1	−0·3	−0·4	+1·3	−0·4	+0·4
5. Bengal	−0·4	+0·8	+2·2	−1·3	+2·5	−1·1	−0·5	−0·3	−0·1	+0·5	+0·8	−0·8	+0·2
6. Orissa	−0·7	−0·1	+0·3	+0·3	+1·3	−2·9	+0·5	+0·3	+0·2	+0·5	+1·3	−1·1	0
7. Chota Nagpur	−1·5	+1·9	+3·7	+2·1	+2·8	−4·7	+0·3	−0·1	+0·3	+1·2	+0·8	−1·7	+0·4
8. Bihar	−0·6	+0·8	+2·5	+0·1	+3·0	−2·7	−1·1	+0·1	−0·2	+1·2	−0·2	−1·2	+0·1
9. United Provinces, East	−0·1	+0·5	+2·7	+1·5	+1·1	−4·3	−1·3	−0·7	−0·7	+1·4	−1·8	−1·5	−0·3
10. United Provinces, West	+0·5	−0·2	+3·0	+2·3	+0·1	−3·4	−0·9	−0·9	−0·7	−1·1	−2·9	−2·5	−0·6
11. Punjab, East and North	+2·2	+0·3	+4·8	+3·1	−1·5	−0·8	−1·3	−1·9	−1·0	−0·5	−3·1	−1·3	−0·1
12. Punjab, Southeast	+3·7	−0·5	+5·2	+2·1	−3·5	+1·1	−0·6	−2·9	+0·1	+0·8	−3·1	−0·9	+0·1
13. Kashmir	+2·9	+3·5	+4·1	+3·8	−2·5	+4·3	−0·3	+0·3	+0·9	+4·1	−1·7	−0·3	+1·6
14. North-West Frontier Province	+1·7	−0·9	+4·5	+2·2	−2·8	+1·3	+0·8	−2·5	−0·1	+2·1	−2·5	−1·1	+0·2
15. Baluchistan	+3·3	−3·9	+3·7	+0·2	−2·1	−2·5	+1·3	+2·3	+2·6	−0·9	−7·5	−0·7	−0·3
16. Sind	+2·5	−1·7	+3·1	+0·9	−0·7	+0·9	+0·9	+0·4	+0·7	+0·7	−3·2	−1·1	+0·3
17. Rajputana, West	+3·0	−1·7	+4·4	+0·4	−1·9	−1·4	+1·4	−0·5	−1·1	−3·1	−4·1	−2·1	−0·6
18. Rajputana, East	+2·2	−1·7	+3·9	+1·7	−0·9	−3·3	+1·5	−1·9	−0·9	−2·9	−4·4	−2·5	−0·8
19. Gujarat	+2·7	−1·9	+2·9	0	+0·8	−0·1	+1·5	−0·5	+0·4	−0·7	−1·8	−1·3	+0·2
20. Central India, West	+1·5	−0·6	+3·4	+1·8	+1·7	−3·3	+1·8	0	+1·2	−0·9	−2·2	−1·1	+0·3
21. Central India, East	−1·3	−1·2	+1·9	+1·4	+0·1	−7·2	+0·2	−0·5	−0·2	+0·5	−2·5	−3·0	−1·0
22. Berar	+0·1	−0·9	+1·5	+1·5	+1·3	−3·3	+0·9	+0·5	+0·5	+1·1	+1·4	−0·7	+0·3
23. Central Provinces, West	−0·5	−0·9	+0·6	+1·3	+0·5	−5·4	+0·9	−0·1	+0·2	+0·7	−0·5	−1·5	−0·4
24. Central Provinces, East	−0·5	+0·3	+0·7	+2·9	+1·0	−5·2	+0·7	+0·3	+0·1	+1·3	+1·5	−1·5	+0·1
25. Konkan	+0·7	−1·1	+1·3	+0·2	−0·7	−1·3	+0·3	+0·4	−0·3	−1·1	−0·7	−1·1	−0·3
26. Bombay Deccan	+0·3	−0·7	+1·0	+0·4	+0·9	−1·7	+1·2	+0·1	+0·3	−0·3	+0·4	−1·7	0
27. Hyderabad, North	+0·2	+0·3	+0·9	+1·3	+0·9	−3·1	+0·3	+0·5	+0·5	+0·5	+0·7	−0·7	+0·2
28. Do., South	+0·5	+0·7	+0·3	+0·9	−0·1	−3·0	−0·5	+0·3	+0·5	−0·5	+0·3	−1·7	−0·2
29. Mysore	−0·7	+0·5	+0·7	+1·3	+0·5	−2·1	+1·5	−0·1	−0·1	−0·5	−0·5	−1·1	−0·1
30. Malabar	−0·1	−0·5	+0·6	+0·8	+0·1	−1·0	+0·1	+0·7	−0·3	−0·7	−0·5	−0·9	−0·1
31 Madras, Southeast	−0·8	+0·2	+0·1	+1·1	+0·1	−0·3	−1·3	−0·5	−0·8	−0·2	+1·1	−0·3	−0·1
32 Do. Deccan	−0·1	+0·8	−0·5	+1·1	+0·1	−1·0	−0·6	−0·3	−0·3	−0·7	+0·7	−0·7	−0·1
33. Do., Coast, North	−0·2	+1·1	−0·7	+0·2	−0·1	−1·9	−1·7	−0·1	0	−0·3	+0·7	−0·1	−0·3

In the following discussion the year is divided into four seasons according to the following arrangement:—

1st.—The cold weather period, including the months of January and February.

2nd.—The hot weather period, including the months of March, April and May.

3rd.—The period of the south-west monsoon rains proper, including the months of June, July, August and September.

4th.—The period of the retreating south-west monsoon, including the months of October, November and December.

I. The cold weather period.—On the average of the season maximum and minimum temperatures were both nearly normal throughout India with the exception of Kashmir where they were appreciably higher than usual.

In Afghanistan as represented by Kabul temperature was much above the average by both day and night. In Persia no appreciably large departures from normal conditions occurred. A well marked wave of cold affected northern India between the 4th and the 11th February. It caused very low temperatures, especially in Baluchistan where maximum temperatures from 20° to 28° below normal were recorded.

II. The hot weather period.—There was nothing strikingly abnormal in the temperature conditions of the period as a whole.

The greatest heat of the year occurred generally between the 22nd and 29th May.

At Jacobabad, usually the hottest place in India, a temperature of 121° was observed which is 5° lower than the highest hitherto on record.

III. The south-west monsoon period.—In June maximum temperature was largely below the normal in Chota Nagpur, the United Provinces, Central India and the Central Provinces, but during the rest of the season the temperature conditions were fairly normal throughout the Indian area. In Kabul and Kashgar weather was appreciably warmer than usual all through the period.

IV. The retreating south-west monsoon period.—The mean temperature for the season did not differ appreciably from the normal anywhere in the plains except in Rajputana, where it was 3° lower than usual. Conditions were fairly normal in Kashmir, Afghanistan, as represented by Kabul as well as in Persia, but in Baluchistan temperature was 3° below the average due mainly to unusually low temperatures recorded in November.

The year.—On the mean of all the plain stations temperature ranged above the average by half a degree or more in January, March and April, was sensibly normal in February, May, July, August, September and October, and was lower than usual in June, November and December. The opposite monthly variations nearly neutralised each other, so that the mean temperature for the whole year differed from the normal by only —0·1°.

The statement below shows that during nearly the whole year the departures from normal of temperature were determined more or less by the character of the rainfall.

TABLE 18.

Month.	Departure from normal of temperature.	Percentage departure of rainfall.
	°	
January	+0·5	—89
February	—0·2	—28
March	+2·1	—62
April	+0·9	— 9
May	+0·3	—13
June	—1·9	+27
July	+0·1	— 6
August	—0·4	+24
September	—0·1	+21
October	—0·2	+89
November	—1·0	+19
December	—1·3	—66
Year	—0·1	+16

Atmospheric pressure.

Full information regarding the types of barometers in use at Indian observatories and of the methods of reducing the observations and obtaining the mean daily and monthly pressures will be found in pages 5 and 6 of the Monthly Review for January 1916.

In Table A, called Table II prior to 1907, of each Monthly Review, the monthly mean daily pressure (corrected for temperature) is given in the seventh column, and the departure from the normal in the eighth column. The normal monthly mean pressure values were recalculated in 1904 for all first and second class stations, and will be found in pages 66-69 of the "Indian Meteorological Memoirs," Volume XVII. The departure data in the Monthly Reviews for the year 1916 were obtained by a comparison of the actual monthly means with these normals; the departures of the monthly pressure of all first and second class stations in 1916 are given in Table 19. The figures in the seventh and eighth columns of Table A, appended to the present Annual Summary, giving data of the mean pressure of the air and its departure from the normal for all first and second class stations are comparable with the corresponding data of previous years published in the Annual Reports and Annual Summaries.

In the ninth column of Table A in each Monthly Review are given the mean pressures reduced to sea-level and corrected to constant gravity (Lat. 45°). These are not directly comparable with the sea-level pressure values of the years 1875-90 as given in the Annual Reports for those years, for

previous to 1891 no correction was made to reduce the monthly pressure means to standard gravity.

In Table B of each Monthly Review, and also in that appended to the Annual Summary, are given the pressure data for 8 hours local time. The fourth column in that table gives the mean 8 hours pressures for the month corrected for temperature. In the fifth column are given the departures of these mean 8 hours pressures from the normal pressures.

The greater part of the normal 8 hours monthly means of pressure used in Table B have been deduced from the barometic observations of the whole of the twenty-two years' period 1839-1910, and in all except 24 cases the periods employed equalled or exceeded five years.

TABLE 19.—*Departure from normal of monthly and annual mean pressure of first and second class stations in 1916.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		"	"	"	"	"	"	"	"	"	"	"	"	"
Bengal	Calcutta	+·005	−·068	−·051	−·028	−·002	−·088	+·107	+·014	−·073	−·048	−·035	−·045	−·026
Punjab	Lahore	+·014	−·065	−·035	−·021	+·043	−·102	+·057	+·025	−·058	−·041	−·013	−·059	−·021
Rajputana	Jaipur	+·007	−·069	−·045	−·052	+·016	−·087	+·057	−·003	−·077	−·033	−·009	−·044	−·028
Bombay	Bombay	+·023	−·016	−·019	0	−·019	−·071	−·005	−·015	−·092	−·056	−·045	−·032	−·029
Mysore	Bangalore	+·037	−·027	+·001	+·015	−·003	−·045	−·021	+·008	−·051	−·041	−·023	−·022	−·014
Madras	Madras	+·028	−·045	−·013	−·010	−·004	−·063	−·008	−·004	−·066	−·065	−·043	−·037	−·027
Hill Stations, excluding Kashmir and Baluchistan.	Katmandu	+·066	+·036	+·048	+·084	+·102	+·058	+·135	+·102	+·032	+·001	+·034	−·030	+·056
Extra India	Seychelles	+·015	−·026	+·011	−·022	−·060	−·038	−·071	−·008	−·035	+·023	+·002	−·042	−·021
	Mauritius	−·041	−·047	−·009	−·024	−·118	−·047	−·024	−·027	−·007	−·006	−·009	−·012	−·031

TABLE 20.—*Departure of the mean monthly and annual pressure from the normal in the fifteen chief political divisions of India in 1916.*

Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	"	"	"	"	"	"	"	"	"	"	"	"	"
Burma	+·026	−·058	−·013	−·001	−·006	−·056	+·052	+·005	−·051	−·017	−·021	−·047	−·016
Assam	+·015	−·089	−·034	+·003	+·005	−·073	+·097	+·016	−·041	−·012	−·027	−·031	−·014
Bengal	+·019	−·074	−·032	−·005	+·003	−·076	+·113	+·024	−·052	−·034	−·025	−·037	−·015
Bihar and Orissa	+·024	−·063	−·028	−·012	+·009	−·069	+·103	+·018	−·047	−·042	−·022	−·033	−·013
United Provinces	+·024	−·061	−·035	−·014	+·004	−·076	+·080	+·014	−·054	−·030	−·004	−·035	−·016
Punjab	+·021	−·054	−·032	−·018	+·036	−·087	+·066	+·032	−·047	−·026	−·006	−·046	−·013
North-West Frontier Province	−·001	−·076	−·051	−·037	+·035	−·117	+·043	+·019	−·065	−·057	−·010	−·074	−·033
Sind	+·010	−·034	−·017	−·001	+·029	−·106	+·057	+·002	−·063	−·039	+·010	−·048	−·017
Rajputana	+·017	−·049	−·025	−·016	+·016	−·103	+·063	−·008	−·074	−·030	−·011	−·044	−·022
Bombay	+·023	−·027	−·011	+·006	−·026	−·087	+·018	−·016	−·085	−·055	−·042	−·039	−·028
Central India	+·026	−·045	−·015	−·007	+·005	−·093	+·063	−·016	−·069	−·045	−·023	−·045	−·022
Central Provinces	+·030	−·039	−·009	−·006	−·005	−·087	+·056	−·011	−·064	−·063	−·040	−·038	−·023
Hyderabad	+·032	−·034	0	+·003	−·012	−·073	+·018	+·001	−·062	−·055	−·047	−·028	−·021
Mysore	+·035	−·027	−·001	+·004	−·026	−·052	−·021	−·001	−·057	−·042	−·039	−·024	−·021
Madras	+·035	−·035	−·005	−·001	−·016	−·050	−·010	−·001	−·056	−·050	−·036	−·027	−·021
Mean of India	+·024	−·049	−·019	−·006	+·001	−·078	+·053	+·004	−·060	−·039	−·024	−·039	−·019

I. The cold weather period.—Atmospheric pressure in the plains of India differed largely from the normal, being 0·024″ in excess in January and as much as 0·049″ in defect in February.

The excess in January extended to Zanzibar and Seychelles but was replaced by a large defect at Mauritius. The defect in February was even more widespread.

The vertical pressure gradient was somewhat steeper than usual in both months in the Sind-Baluchistan area as well as in the Central Provinces and was below its normal value over the Punjab.

II. The hot weather period.—The defect in pressure of 0·049″ in February over the plains of India was reduced to 0·019″ in March, and 0·006″ in April. In May the mean pressure of the country was normal.

Pressure was in defect during the whole period generally in Persia and Arabia. At Zanzibar and Seychelles it was somewhat in excess in March, and in defect in April and May. It was in defect throughout the period at Mauritius.

There were no persistent marked abnormal features in the local distribution. In northern India in March the vertical pressure gradient was very weak and rainfall was much below normal. In May a somewhat steeper gradient than usual was associated with a normal rainfall.

III. The south-west monsoon period.—Pressure varied irregularly from the normal during this period; thus it was as much as 0·078″ and 0·060″ in defect in June and September respectively, 0·053″ in excess in July and nearly normal in August. Conditions were more or less similar in Persia and Arabia in June, July and September but in August pressure was in defect in those areas.

In the Indian Ocean pressure was in defect at all the three stations throughout practically the whole period; the pressure distribution there was thus favourable to a good monsoon in India.

The vertical pressure gradient was weaker than usual in June along the north-west frontier, and was steep in Bengal in July and August, but over the period as a whole there were no striking departures from normal.

IV. The retreating south-west monsoon period.—The mean pressure was below normal during the whole period in India as well as in Persia and Arabia generally. In November the defect was most marked in Hyderabad so that the isobars on the average of the month ran east and west across the Peninsula.

The vertical gradient was somewhat steep in Rajputana in October and November, and in Kashmir in November. There was a marked deficiency of pressure in December at the Seychelles and at stations in Arabia and Persia.

The year.—Atmospheric pressure over the plains of India was above normal in January and July, was nearly normal in May and August, and was in defect in all the other months, the defect for the whole year being ·019″.

TABLE 21.

Month.	Departure from normal of	
	Pressure.	Mean temperature.
	″	°
January	+·024	+0·5
February	—·049	—0·2
March	—·019	+2·1
April	—·006	+0·9
May	+·001	+0·3
June	—·078	—1·9
July	+·053	+0·1
August	+·004	—0·4
September	—·060	—0·1
October	—·039	—0·2
November	—·024	—1·0
December	—·039	—1·3
Year	—·019	—0·1

Storms of the year.

BAY OF BENGAL.

No.	Month.	Date.	Greatest observed barometric depression.	Intensity of storm.	Details of storm.
1	May	4th to 6th.	·7″	Severe	Conditions where unsettled in the neighbourhood of the Andaman Islands on the first three days of the month, and by 8 hours on the 4th had formed into a storm about 130 miles to the westnorthwest of Fort Blair. From there it moved in a course curving towards the Arakan coast which it crossed near Akyab at about midnight of the 5th. By the morning of the 6th it had reached the neighbourhood of Mandalay and disappeared during the day without any appreciable change in its position. Winds of hurricane violence with mountainous seas were experienced by several vessels involved in the storm area on the 5th.
2	June	4th to 6th	·4″	Slight	According to the observations from ships this developed slowly during the first three days of the month off the Arakan coast, lay about 200 miles west of Kyaukpyu

No.	Month.	Date.	Greatest observed barometric depression.	Intensity of storm.	Details of storm.
					on the morning of the 4th, travelled from there in a north-westerly direction, crossed the coast between Sangor Island and Barisal on the morning of the 5th and disappeared on the 6th.
3	September	18th to 29th	1″	Severe	Conditions were disturbed to the southeast of Diamond Island on the 17th and this disturbance travelling northwestwards developed during the 18th into a storm which continued to move in the same direction and reached the neighbourhood of the Sandheads on the morning of the 21st. It had meanwhile developed into a severe disturbance at the centre of which the barometer stood at least 0·6″ below the normal height. It intensified still further during the day, and advancing almost due north passed between 20 and 21 hours approximately over Calcutta, doing considerable damage to property. The lowest reading recorded at the Alipore Observatory during the passage of the centre was 28·55″ about an inch below the normal. The disturbance weakened considerably on the 22nd, and travelling in the neighbourhood of Burdwan, Jubbulpore, Sangor and Kotah, dissipated in the southwest Punjab on the 29th. The storm strengthened greatly when nearing the coast, and the strongest winds recorded in any available ships' logs were only of force 8.
4	October.	15th and 16th	·2″	Slight	This formed on the morning of the 15th to the southwest of the Andamans after two days of disturbed weather; from there it travelled westnorthwestwards towards the Coromandel coast which it crossed near Cuddalore on the evening of the 16th. On the morning of the 17th it was passing over the plateau of Mysore, and by 8 hours of the following day had passed out into the Arabian Sea near Karwar.
5	October.	21st to 25th	·3″	Moderate	This developed to the west of the Andamans during the 18th, 19th and the 20th, and had formed into a storm by 8 hours on the 21st. Advancing almost due northwest, it crossed the coast to the north of Cocanada on the night of the 23rd and disappeared over north Hyderabad on the 26th. The strongest winds recorded on board ships were of force 9,
6	Oct.	25th to 31st	·3″	Moderate	This was the development of a depression which appears to have entered the Andaman Sea from the east on the 25th. It developed into a storm on the 27th with centre about latitude 15°, longitude 92°, advanced in a west-northwesterly direction, and on the morning of the 30th struck the coast between Cocanada and Masulipatam; it disappeared over Hyderabad during the 31st. The strongest winds recorded on board ships were only of force 7.
7	Nov.	1st and 2nd	·3″	Feeble	This became visible on the first between the Orissa and Arakan coasts, passed inland between Akyab and Cox's Bazar, and broke up on the 2nd in the Arakan and Lushai hills. The highest winds recorded were only of force 5.
8	Nov.	7th to 11th	·5″	Considerable.	This appeared over the Andaman Sea on the 6th. It began travelling north-westwards on the 7th, and the centre passed close to Diamond Island at about 18 hours causing there a north-east gale and a rapid fall of the barometer. On the morning of the 10th the storm crossed the coast to the west of Sangor Island, and at 8 hours the centre was close to Midnapore where the barometer stood 29·4″ or ·5″ below the normal height. From there it travelled north-east, was near Sirajganj on the morning of the 11th and disappeared during the succeeding 24 hours. The observations recorded at Diamond Island and at Midnapore and the adjoining observatories show that it was a fairly severe disturbance of an unusually small extent; winds of at least force 9 were experienced at Midnapore.
9	Nov.	21st to 26th	·5″	Severe	This formed as a depression during the 19th and 20th and developed into a storm on the 21st midway between Port Blair and Ceylon; and travelling along a westerly path it crossed the Coromandel coast to the north of Cuddalore, on the night of the 22nd, causing much loss of life and damage to property. Its intensity diminished rapidly as it crossed the Peninsula. From the 24th to the 26th it was recognizable as a depression in the south-east of the Arabian Sea, but it did not develop again into a storm. No ships, for

No.	Month.	Date.	Greatest observed barometric depression.	Intensity of storm.	Details of storm.
					which reports are available, were near the centre of the storm, so that the strongest winds reported over the sea were only of force 8. At Pondicherry, according to newspaper accounts, about 300 lives were lost, and damage to property amounted to about Rupees 10 lakhs.

ARABIAN SEA.

No.	Month.	Date.	Greatest observed barometric depression.	Intensity of storm.	Details of storm.
1	May	25th to 28th	·75″	Very severe	The marine information relating to this storm is scanty. It, however, shows that at 8 hours on the 25th there was a storm with centre at about latitude 12° north, longitude 62° east, that it was moving towards the north-west, and that it probably crossed into Arabia near the Kuria Muria Islands during the day on the 27th. Winds of force 11 and mountainous seas were experienced by *S. S. Abydos* at about latitude 11° north, longitude 61° east, on the night of the 25th.
2	Oct.	18th to 24th	·5″	Considerable.	The disturbance mentioned above as having crossed into the Arabian Sea near Karwar on the 18th continued to travel in a westerly direction until the morning of the 24th when it had reached a position about 250 miles to the east of the Kuria Muria Islands. The storm was of slight intensity only till the 20th; it then intensified and on the 23rd and 24th *S. S. Crewe Hall* experienced winds of force 8, terrific squalls and a high dangerous sea, and *S. S. Bideford* heavy seas with winds of force 9.

Winds.

The mean direction of the wind and the mean diurnal movement of the air as measured by Robinson anemometers are given for all second class stations in Table A in each Monthly Weather Review. The normal values are also stated for the sake of ready comparison. The normal data of these elements, utilized in Table A of the Monthly Weather Reviews of the year 1916, will be found in a collected form in Tables XXII, XXVI and XXVII of Volume XVII of Indian Meteorological Memoirs. The mean 8 hours wind directions for each month are laid down in the first chart in each Monthly Review. They are calculated in the usual manner by finding the resultant of equal winds in the directions actually observed at 8 hours and given in Table B, in each Monthly Review. As a general rule, the mean 8 hours wind directions vary little from the mean wind directions (calculated from the 10 and 16 hours wind data) in Table A of the Monthly Reviews, but in some cases and at certain seasons of the year they differ very considerably. The normal values used in Table B have been published in Volume XVII of the departmental Memoirs.

Up to 1911 the factor representing the ratio of air movement to travel of Beckley cups had in India, as in other countries, been taken as 3·0; but as in that year it had been generally accepted that the factor should be 2·2, the change to 2·2 was made in the Monthly Weather Review of January 1912 (see note on page 8 there).

The following is a summary of the more important features of the air movement over India for each period of the year 1916:—

I.—The cold weather period.

(*a*) Wind velocity was somewhat higher than usual in Mysore, and lower in Hyderabad; elsewhere it did not differ appreciably from the average.

(*b*) In Assam, the United Provinces and the Central Provinces, the winds blew steadier than usual, while in Bengal they were somewhat unsteady.

(*c*) There were no persistent irregularities noticeable in the direction of the air movement on the plains. The absence of southerly winds at the level of Leh, however, is noteworthy, the mean direction for each month being approximately northnortheast as compared with the normal southsouthwest.

II.—The hot weather period.

(*a*) The air movement was appreciably stronger than usual in the Punjab, and weaker in the North-West Frontier Province, Sind, Bombay and Hyderabad.

(*b*) Winds blew with greater steadiness than usual in Assam, the United Provinces and the Punjab. Elsewhere the degree of steadiness was about normal.

(*c*) The only persistent deviation from normal wind directions occurred in Bengal, where winds were more southerly than usual in April and May.

(*d*) According to logs of vessels light irregular wind prevailed during May over the western half of the equatorial belt, except in the neighbourhood of the African coast where the air movement was of about the usual character. The equatorial belt of calms thus occupied in that month a position which is normal for the middle of April.

III.—The south-west monsoon period.

(*a*) Winds were appreciably stronger than usual in the Punjab and Mysore, and weaker in Bengal, the North-West FrontierProvince, Sind, Bombay and Hyderabad.

(*b*) The degree of steadiness was above the average in Assam, the United Provinces and the Punjab, and below it in Burma, Bengal, the North-West Frontier Province, Sind, Rajputana, Bombay and Central India.

(*c*) There was a tendency, on the whole, for the winds on the Konkan and Tenasserim coasts to be more southerly than usual.

(*d*) Winds were much stronger and on the whole steadier than usual at Seychelles in July, August and September, and lighter in those months at Mauritius. The degree of wind steadiness was very low at Zanzibar in September.

IV.—The retreating south-west monsoon period.

(*a*) The velocity was higher than usual in the Punjab, Mysore and Madras, and lower in the North-West Frontier Province, Sind and Rajputana.

(*b*) The wind steadiness was much above the average in Hyderabad and the Central Provinces, and much below in Central India. In Mysore it was very much above normal in October, and very much below in November.

(*c*) The wind direction in October in the Bombay Deccan, Hyderabad, the Madras Deccan and Mysore was such as ordinarily prevails in September; otherwise there were no noteworthy deviations from the normal directions.

(*d*) Winds were much stronger than usual at Seychelles in October, and much lighter at Mauritius and at Zanzibar in October and November. They were very much steadier than usual at Seychelles in November and very much less steady in December.

Ordinarily minimum wind velocities and very variable winds are experienced at Seychelles during November, but this year these conditions obtained during December.

Humidity.

The departures from normal of the mean monthly and annual aqueous vapour pressure and relative humidity for stations in Table A, for the year 1916, are given in Tables 22 and 23. The normal values employed in the determination of the departures are given in Tables XXX and XXXIII of the Indian Meteorological Memoirs, Volume XVII. The Tables 24 and 25 give departure data of 8 hours aqueous vapour pressure and relative humidity for each month of the year and for the year for the fifteen chief political divisions.

Normal values for most of the stations in Table B, have been derived from the 8 hours records of the period 1889-1910 and are given in Part III, Volume XXII of Meteorological Memoirs.

TABLE 22.—*Departure of the monthly and annual mean vapour pressure data of 1916 from the average of past years.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		"	"	"	"	"	"	"	"	"	"	"	"	"
Bengal	Calcutta	—·028	—·038	—·048	+·002	—·039	—·030	—·029	+·001	—·005	+·089	+·046	—·005	—·007
Punjab	Lahore	—·021	—·010	—·021	+·018	—·061	+·144	+·039	+·078	+·091	+·098	—·031	—·028	+·025
Rajputana	Jaipur	—·071	—·052	—·103	—·030	—·147	+·043	—·036	+·057	+·065	+·084	—·071	—·060	—·027
Bombay	Bombay	—·007	—·078	—·008	—·055	—·015	—·018	+·016	+·023	+·021	+·037	+·076	—·019	—·002
Mysore	Bangalore	—·018	+·002	—·033	—·068	+·008	—·020	+·039	+·022	+·009	+·020	+·045	—·007	—·004
Madras	Madras	—·044	+·005	0	—·008	+·021	—·071	+·076	+·013	+·019	+·029	+·047	—·028	+·005
Hill Stations, excluding Kashmir and Baluchistan.	Katmandu	—·004	—·010	—·007	+·039	—·063	—·001	—·032	—·020	+·007	+·023	—·016	—·027	—·009
Extra India	Seychelles	+·003	—·033	—·013	+·035	—·015	+·004	—·016	—·026	—·042	—·054	—·034	—·014	—·017
	Mauritius	+·027	—·024	—·003	+·024	+·039	+·024	—·059	+·003	+·016	+·003	—·012	—·026	+·001

TABLE 23.—*Departure of the monthly and annual mean relative humidity data of 1916 from the average of past years.*

DIVISION.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Bengal	Calcutta	− 6	− 8	− 9	− 3	− 8	+ 2	− 4	+ 1	− 1	+ 5	+ 1	− 2	− 3
Punjab	Lahore	−10	− 3	−10	− 2	− 3	+ 6	+ 7	+ 8	+ 9	+ 9	+ 1	− 2	+ 1
Rajputana	Jaipur	−18	− 6	−14	− 4	−12	+ 2	− 8	+ 7	+ 6	+11	− 5	− 6	− 4
Bombay	Bombay	− 4	− 5	− 4	− 7	− 2	+ 1	+ 1	0	+ 1	+ 5	+ 6	− 3	− 2
Mysore	Bangalore	0	0	− 3	− 7	+ 2	+ 2	+ 3	+ 3	+ 2	+ 4	+ 7	0	+ 1
Madras	Madras	− 6	− 2	+ 2	− 2	+ 1	− 6	+ 9	− 1	− 3	0	+ 3	− 5	− 1
Hill Stations, excluding Kashmir and Baluchistan.	Katmandu	− 1	− 6	− 8	0	−13	0	− 3	− 4	+ 1	− 2	− 1	− 1	− 3
Extra India	Seychelles	− 3	− 5	− 5	− 1	− 3	− 3	− 3	− 3	− 5	− 6	− 3	− 4	− 4
	Mauritius	+ 4	− 2	− 3	+ 3	+ 3	+ 3	− 4	0	+ 3	+ 3	+ 1	+ 1	+ 1

TABLE 24.—*Departure of the mean monthly and annual aqueous vapour pressure from the normal in the fifteen chief political divisions of India in 1916.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	"	"	"	"	"	"	"	"	"	"	"	"	"
Burma	−·032	−·013	−·023	−·021	−·018	−·019	−·017	−·003	−·011	−·019	−·017	−·027	−·018
Assam	+·017	+·009	+·018	+·003	−·002	+·005	−·033	−·013	−·008	−·001	+·041	−·005	+·003
Bengal	−·027	−·019	+·003	−·002	−·003	−·025	−·020	−·008	−·002	+·047	−·025	−·011	−·003
Bihar and Orissa	−·048	−·038	−·033	+·021	−·068	−·012	+·001	+·009	+·016	+·121	+·055	−·006	−·003
United Provinces	−·040	−·025	−·064	−·019	−·162	+·050	+·001	0	+·032	+·119	−·028	−·016	−·012
Punjab	−·032	−·015	−·038	−·023	−·091	+·097	+·001	+·045	+·063	+·104	−·043	−·029	+·003
North-West Frontier Province	0	+·011	−·032	+·003	−·085	+·114	−·007	+·067	+·048	+·095	−·050	−·015	+·012
Sind	+·015	−·030	+·062	+·021	−·014	+·071	+·006	+·097	+·057	+·019	−·107	−·027	+·014
Rajputana	−·046	−·036	−·045	−·007	−·126	−·013	−·042	+·044	+·059	+·119	−·048	−·048	−·016
Bombay	+·001	−·018	−·015	−·032	−·031	+·004	+·014	+·026	+·043	+·057	+·056	−·013	+·008
Central India	−·046	−·017	−·039	−·011	−·062	+·028	−·002	+·015	+·031	+·135	+·004	−·019	+·001
Central Provinces	−·044	−·017	−·100	−·091	−·065	+·025	+·020	+·017	+·032	+·163	+·100	−·003	+·003
Hyderabad	−·007	−·055	−·084	−·094	+·014	+·017	+·038	+·016	+·031	+·092	+·133	−·001	+·008
Mysore	−·047	−·008	−·011	−·001	+·017	−·013	+·016	+·009	+·002	−·012	+·037	−·009	−·001
Madras	−·043	−·007	−·005	−·006	+·009	−·030	+·035	+·018	+·006	+·004	+·054	−·014	+·002
Mean of India	−·029	−·021	−·037	−·022	−·051	+·013	+·001	+·020	+·027	+·074	+·019	−·018	−·002

TABLE 25.—*Departure of the mean monthly and annual relative humidity from the normal in the fifteen chief political divisions of India in 1916.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma	—1	—2	—2	0	—2	+1	—1	0	0	—1	+1	—1	—1
Assam	—1	—4	—2	+1	—3	—3	—1	—2	—1	0	+1	—1	—1
Bengal	—2	—3	—2	+4	—4	+1	—1	0	+1	+4	+1	0	0
Bihar and Orissa	—6	—7	—12	+2	—10	+4	0	+1	0	+9	+4	+2	—1
United Provinces	—9	—8	—15	—5	—12	+8	+3	+1	+2	+7	—1	+1	—2
Punjab	—11	—3	—13	—5	—4	+9	+4	+3	+7	+11	+1	—1	0
North-West Frontier Province	—1	+5	—13	—1	—2	+9	+1	+10	+6	+9	—3	+4	+2
Sind	0	—5	+3	+1	—1	+4	—1	+5	+3	+3	—4	+1	+1
Rajputana	—14	—7	—11	—1	—8	+2	—6	+7	+7	+16	—1	—5	—2
Bombay	—1	—1	—6	—2	—3	+3	+1	+2	+5	+8	+8	+1	+1
Central India	—8	—3	—9	0	—9	+11	—2	+3	+1	+16	+7	+5	+1
Central Provinces	—6	—3	—13	—10	—5	+11	+1	0	+2	+16	+11	+3	+1
Hyderabad	0	—6	—7	—9	+1	+8	+5	+1	+4	+13	+16	+1	+2
Mysore	—4	0	—1	—1	+3	+3	+1	+2	+2	+4	+8	+2	+2
Madras	—3	—1	0	—2	+1	0	+5	+2	+2	+2	+6	0	+1
Mean of India	—5	—4	—7	—2	—4	+5	+1	+2	+3	+8	+4	0	0

I.—The cold weather period.—Humidity, both absolute and relative, was in defect over practically the whole country, a departure which corresponds with the fact that rainfall was also well below the average in this period.

II.—The hot weather period.—Except in Sind, where vapour pressure was somewhat higher than usual, and in Assam, Bengal, Mysore and Madras, where hygrometric conditions were normal, the air was drier than usual throughout the plains of India.

Over Persia the distribution of humidity was irregular. At Kalat, Quetta and Kabul the relative humidity was much higher than usual though the absolute humidity did not differ appreciably from the normal.

III.—The south-west monsoon period.—The air was normal or slightly drier than usual in Burma and northeast India, and damper over the greater part of the rest of the plains of India. The excess was most marked in both absolute and relative humidity in the Punjab and the North-West Frontier Province.

These departures were in the main parallel with the anomalies of rainfall.

Humidity was in excess in Baluchistan and Kabul, but there was a remarkably large defect in the neighbourhood of the Persian Gulf during June.

IV.—The retreating south-west monsoon period.—The air was damper than usual except in Burma and Sind.

The excess was most pronounced in Central India, the Central Provinces and Hyderabad, so that the humidity departures agree well in the main with those of rainfall. Judging from the information available it would seem that the period as a whole was characterised, by unusual dryness over the area between north-west India and Arabia.

The year.—Vapour tension and relative humidity were both above normal in June, August, September, October and November. October was the dampest month in the year both absolutely and relatively. Absolute humidity was nearly normal in July and relative humidity in July and December. In the rest of the year they were both in defect. As the anamolous features of different months very nearly balanced each other both the vapour pressure and relative humidity of the year were very nearly normal.

A comparison of the monthly departures with the corresponding rainfall data shows that the abnormalities of the two elements were parallel during most of the months of the year.

Cloud.

Normal values of the mean monthly and annual amount of cloud at stations in Table A have been obtained from the whole of the available data up to the end of the year 1899 and given in Tables XXXV and XXXVI of the Indian Meteorological Memoirs, Volume XVII. These means are the arithmetical averages of the cloud amounts as registered at 10 and 16 hours, and hence represent the mean amount during the day period rather than of the whole 24 hours.

The normals used in Table B are in the case of the majority of stations based on the 8 hours records of the period 1889—1910, and are given in the Volume XXII, Part III, of the Memoirs.

Departure data of this element of meteorological observation for first and second class stations for the year 1916 are given in Table 26. Table 27 gives the departures of the 8 hours cloud for the fifteen chief political provinces of India.

Table 26.—Departure of the monthly and annual mean cloud amount of 1916 from the average of past years.

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Bengal	Calcutta	−0·4	−0·7	−0·5	−0·1	−1·6	+1·6	−0·1	+0·6	+0·6	+2·3	−0·2	−0·7	+0·1
Punjab	Lahore	−0·2	−1·4	−0·7	0	−0·3	−2·4	−1·2	+1·4	−0·6	0	−0·3	−1·1	−0·6
Rajputana	Jaipur	−0·2	−1·2	−0·2	−0·8	−0·9	+0·4	−1·3	+0·9	+1·0	+1·3	−0·8	−1·6	−0·3
Bombay	Bombay	−0·4	+0·1	0	+0·1	+1·3	+1·8	+0·3	−0·5	+0·8	+2·8	+1·0	−1·0	+0·5
Madras	Madras	−1·7	−1·3	−1·1	−1·2	−1·6	+0·5	−1·4	−0·3	−0·4	+0·2	−0·2	+1·2	−0·8
Hill stations, excluding Kashmir and Baluchistan.	Katmandu	+0·8	−0·2	−0·6	−0·1	−1·1	+1·5	+0·7	0	+0·8	+0·2	−0·7	+0·3	+0·1
Extra India	Seychelles	−0·4	+0·2	−2·0	+0·2	+0·8	−1·4	+1·5	−0·3	+0·4	−1·1	−1·3	−0·9	−0·4
	Mauritius	+1·5	−0·9	−1·5	−0·2	+2·0	+0·1	+0·2	+0·9	+1·3	+0·8	+0·5	+1·2	+0·5

TABLE 27.—*Departure of the mean monthly and annual cloud amount from normal in the fifteen chief political divisions of India in 1916.*

Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma	+0·7	+0·3	+1·0	+0·3	−0·1	+0·7	−0·9	−0·5	+0·4	+0·4	+0·7	+1·0	+0·3
Assam	0	−0·3	−0·9	+0·1	−0·8	−1·5	−0·5	−1·0	−0·1	+0·9	+0·6	+1·6	−0·2
Bengal	−0·4	−0·7	−0·3	+0·8	−0·5	+0·7	−0·1	+0·4	+0·5	+1·9	+0·1	−0·6	+0·1
Bihar and Orissa	−0·8	−0·7	−0·3	+0·6	−0·3	+1·5	0	+0·6	+0·4	+2·9	+1·2	−0·6	+0·4
United Provinces	−1·5	−0·6	−0·7	+0·2	−0·5	+1·6	0	+0·1	+0·6	+1·5	0	−0·9	0
Punjab	−0·1	−0·3	−0·8	+0·1	+0·2	+0·5	+0·9	+1·2	+0·9	+0·6	−0·4	−0·9	+0·2
North-West Frontier Province	+0·7	+0·3	−0·5	+1·3	+0·1	+1·2	+0·7	+2·5	−0·1	−0·3	−0·7	−0·5	+0·4
Sind	+0·8	−1·0	−0·1	−0·7	−0·3	0	−1·7	+2·1	−0·1	+0·7	−1·1	−1·1	−0·2
Rajputana	+0·1	−1·4	−0·6	−0·9	+0·4	+1·6	−0·7	+1·7	+1·3	+1·6	−0·9	−1·1	+0·1
Bombay	−0·2	+0·2	+0·3	0	+0·8	+0·6	−0·7	+0·4	+0·9	+2·1	+0·9	−0·2	+0·4
Central India	−0·7	−0·8	+0·1	+0·4	0	+2·4	−1·2	+0·6	+0·3	+3·0	+0·7	−0·7	+0·3
Central Provinces	−0·8	+0·2	0	+0·3	+0·6	+1·4	−0·7	0	+0·2	+2·2	+1·7	−1·0	+0·3
Hyderabad	−0·5	+0·3	−0·3	+0·1	+0·7	+1·1	+0·6	+0·8	+1·4	+2·5	+1·8	−1·1	+0·6
Mysore	−1·4	−0·5	−0·4	−0·2	−0·1	+0·1	−1·2	−0·7	−0·1	+0·9	+0·4	−1·2	−0·4
Madras	−1·0	−0·5	−0·4	−0·2	−0·2	+0·6	−0·5	0	+0·2	+0·9	+0·3	−0·7	−0·1
Mean of India	−0·4	−0·3	−0·2	+0·1	+0·1	+0·9	−0·4	+0·4	+0·6	+1·6	+0·5	−0·5	+0·2

I.—The cold weather period.—On the mean of the period cloud amount was in excess in Burma and the North-West Frontier Province, nearly normal in Assam, the Punjab, Sind, Bombay, Central Provinces and Hyderabad, and in defect elsewhere over the plains of India.

The cloud proportion was, on the whole, high in Arabia, Persia, Baluchistan and at Kabul.

II.—The hot weather period.—There was appreciably less cloud than usual in Assam, but over the remainder of the plains the skies were clouded to about the normal extent.

The cloud proportion was, on the whole, higher than the average in Persia, Baluchistan, and Kabul as well as on the hills of north-east India.

III.—The south-west monsoon period.—Skies were less clouded than usual in Assam and Mysore, but elsewhere in the plains cloud amount was either nearly normal or in excess, the excess being 1·0 or more in the North-West Frontier Province, Rajputana and Hyderabad. It may be noted that the rainfall of the period was in excess in every division except Assam.

In Arabia, Persia, Baluchistan, Kabul and in the hill districts of northern India generally the proportion of cloud was higher than usual.

IV.—The retreating south-west monsoon period.—In most parts of the country the sky was covered to more than the average extent in October, but in December the skies were unusually clear except in Burma and Assam. On the mean of the whole period the quantity of cloud was in appreciable defect in the North-West Frontier Province and Sind, and was normal in the United Provinces, the Punjab, Rajputana, Mysore and Madras; elsewhere it was in decided excess.

In Persia, Arabia, Baluchistan, Kashmir and the hills of the North-West Frontier Province skies were clearer than usual. Cloud was, on the other hand, unusually heavy for the time of the year over the hills of northeast India.

The year.—On the average of all the recording stations in the plains, skies were appreciably more clouded than usual in June, and from August to November, and were unusually free from cloud in January, July and December.

The general departures of cloud were parallel with those of rainfall in ten months out of the twelve, and with those of absolute humidity in nine.

TABLE 28.

	Departure from normal on Indian area.												
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Cloud amount at 8 hrs.	— 0·4	— 0·3	— 0·2	+ 0·1	+ 0·1	+ 0·9	— 0·4	+ 0·4	+ 0·6	+ 1·6	+ 0·5	— 0·5	+ 0·2
Vapour pressure at 8 hrs.	—·029	—·021	—·037	—·022	—·051	+ ·013	+ ·001	+ ·020	+ ·027	+ ·074	+ ·019	—·018	—·002
Relative humidity at 8 hrs.	— 5	— 4	— 7	— 2	— 4	+ 5	+ 1	+ 2	+ 3	+ 8	+ 4	0	0
Rainfall (percentage departure)	— 89	— 28	— 62	— 9	— 13	+ 27	— 6	+ 24	+ 21	+ 89	+ 19	— 66	+ 16

Snowfall.

(A).—The cold weather of 1915-16 and the succeeding hot weather:—

(*a*) In the Persian area the winter began several weeks after the normal date and lasted longer than usual, more especially in the north.

(*b*) In Afghanistan as represented by Kabul the precipitation was lighter than usual from November to March, and remarkably heavy in April. There are no data available regarding Kabul itself for May, but on the Paghman, Qila Qazi, Shakardara and Hindu Kush ranges snow lay 2 to 3 feet deep on the 24th May.

(*c*) The precipitation in Baluchistan was in excess in January, April, and May, and in defect during the rest of the season.

(*d*) In the mountain region of the North-West Frontier Province the snowfall was apparently light from November to January and also in March, unusually heavy in February, and about normal in April and May.

(*e*) The precipitation of the season was distinctly below normal in Kashmir, the defect occurring chiefly in January and March. There were a few falls of snow in May, but they were confined to the higher ranges.

(*f*) In the Punjab Himalayas the snowfall was heavier than usual in February, and deficient during the rest of the period from November to April. On the Dalhousie range snow is reported to have fallen as low as 2,300 feet on the 6th of February. In May snow fell near the middle of the second week in the Simla, Kulu and Chamba hills, the lowest descent being to 8,000 feet on the Bhandal range. On the ranges near Kilba the snowline had retreated to a level of about 13,000 feet by the beginning of June.

(*g*) In the Kumaon hills the snowfall was on the whole lighter than usual; the accumulations at the end of May were distinctly less than the average on the higher elevations, and rather in excess on the middle ranges.

(*h*) In the Assam Himalayas the snowfall, although unevenly distributed, was on the whole about the average.

In general it appears that notwithstanding the marked prolongation of winter conditions there was less than the average amount of snowfall, and it is almost certain that the accumulations at the end of May were on the whole below the average depth except perhaps on the ranges around Kabul and in a few localities in the western Himalayas.

(B).—The southwest monsoon period, June to September:—

During June there were some light local falls of snow, such as usually occur during that month, and did not affect the previous accumulations which in general continued below the average depth.

In July there were a few local falls in the western Himalayas, mainly on the higher elevations, and the accumulations of snow at the end of the month were in general distinctly below the average.

According to the available information there was little or no snowfall during August except near the region of perpetual snows in the Kumaon Himalayas. The accumulations at the end of the month in Almora were on the whole less than usual. The ranges near Kilba where as a rule appreciable accumulations exist in August were, as in July, clear of snow.

Except locally in the Almora hills the snowfall of September in the western Himalayas, for which alone information is available, was lighter than usual.

(C).—The period October to December:—

During October in the mountain zone bordering upper India there were a few falls, mainly on the higher elevations, and the accumulations of snow still existing at the end of the month were in general distinctly below the average. In the central and eastern sections of the North-East Frontier Tract, the snowfall was heavier than usual and occurred to very low levels.

In November there was much less snowfall than usual except on the ranges near Kabul. The accumulations existing at the end of the month on the ranges in the North-West Frontier Province, Kashmir and Almora were decidedly below the average.

During December unusually heavy snow fell in Chitral and the North-East Frontier Tract, but elsewhere the month's fall was distinctly below the average.

Rainfall.

The rainfall data of India are now issued annually in a separate volume entitled "Rainfall of India." The twenty-sixth volume, that of 1916, contains the whole rainfall data of 2,890 stations which are there classified under their respective administrative divisions according to the following scheme:—

Province.	Number of stations.
Burma	213
Assam	125
Bengal	230
Bihar and Orissa	296
United Provinces of Agra and Oudh	276
Punjab	189
Kashmir	39
North-West Frontier Province	36
Baluchistan	90
Rajputana	186
Bombay	289
Central India	117
Central Provinces	183
Hyderabad	19
Mysore	77
Coorg	10
Madras (including Pudukkottai, Travancore and Cochin)	515
Total	2,890

The information includes monthly statements of—

(*a*) the actual rainfall, day by day, of all the rainfall stations;

(*b*) the total rainfall of the month;

(*c*) the number of rainy days during the month;

(*d*) the average or normal rainfall of the month of all stations for which rainfall data of at least five years are available;

(*e*) the average or normal number of rainy days of the month for all stations for which rainfall data of five years or upwards are available.

Symon's rain-gauges are now used at all rain-gauge stations with the exception of those in Mysore. The time of measuring rainfall is 8 hours by local time throughout India, and the amounts registered give the rainfall of the previous 24 hours, and hence generally of the previous civil day.

The tables 29 to 31 give summaries of the rainfall data of the year. The first and second tables give average rainfall data based on the returns of about 2,400 rain-gauge stations for the 15 chief political divisions and the 33 sub-divisions respectively, while the third table (Table 31) contains data of the number of rainy days for the 33 sub-divisions for the four seasons into which the year has been divided.

The normals employed in this section are based on all the available records ending in 1910 and are given in parts I and II of Volume XXII of Memoirs of the Indian Meteorological Department.

TABLE 29.—*Average over the 15 chief political divisions of the actual and normal rainfall for the four seasons of the year 1916, and for the whole year.*

Division.	January and February.				March to May.				June to September.				October to December.				Whole year.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"		"	"	"		"	"	"		"	"	"		"	"	"	
Burma	0·09	0·30	−0·21	−70	8·36	10·42	−2·06	−20	59·89	58·53	+1·36	+ 2	11·30	8·87	+2·43	+27	79·64	78·12	+1·52	+ 2
Assam	1·95	2·0[illegible]	−0·09	−4	24·75	25·07	−0·32	−1	59·64	65·31	−5·67	− 9	10·42	6·40	+4·02	+63	96·76	98·82	−2·06	− 2
Bengal	0·49	1·36	−0·87	−64	9·93	12·43	−2·50	−20	64·25	55·66	+8·59	+15	13·57	5·32	+8·24	+155	88·24	74·78	+13·46	+18
Bihar and Orissa	0·54	1·59	−1·05	−66	1·84	4·0[illegible]	−2·16	−54	45·36	42·55	+2·81	+ 7	8·66	3·29	+5·37	+163	56·40	51·43	+4·97	+10
United Provinces	0·76	1·55	−0·79	−51	0·56	1·26	−0·70	−56	43·66	33·89	+9·77	+29	2·50	1·88	+0·62	+33	47·48	38·58	+8·90	+23
Punjab	0·79	1·98	−1·19	−60	0·99	1·77	−0·78	−44	20·46	15·18	+5·28	+35	1·11	0·71	+0·40	+56	23·35	19·64	+3·71	+19
North-West Frontier Province	2·18	2·88	−0·70	−24	4·03	4·44	−0·41	− 9	13·40	8·47	+4·93	+58	0·67	1·14	−0·47	−41	20·28	16·93	+3·35	+20
Sind	0·08	0·59	−0·51	−86	0·09	0·41	−0·32	−78	10·77	5·29	+5·48	+104	0·05	0·16	−0·11	−69	10·99	6·45	+4·54	+70
Rajputana	0·20	0·62	−0·42	−68	0·48	0·71	−0·23	−72	26·55	19·51	+7·04	+36	0·99	0·65	+0·34	+52	28·22	21·59	+6·73	+31
Bombay	0	0·17	−0·17	−100	1·87	1·47	+0·40	+27	44·06	40·67	+3·39	+ 8	8·04	3·21	+4·83	+150	53·97	45·52	+8·45	+19
Central India	0·34	0·87	−0·53	−61	0·44	0·64	−0·20	−31	43·09	33·27	+9·82	+30	3·73	1·29	+2·44	+189	47·60	36·07	+11·53	+32
Central Provinces	0·75	0·95	−0·20	−21	0·92	1·46	−0·54	−37	44·49	39·48	+5·01	+13	7·11	2·37	+4·74	+200	53·27	44·26	+9·01	+20
Hyderabad	0·21	0·33	−0·12	−36	1·68	1·77	+0·11	+6	34·44	26·89	+7·55	+28	10·93	5·85	+7·08	+184	47·46	32·84	+14·62	+45
Mysore	0	0·23	−0·23	−100	6·59	5·47	+1·12	+20	26·97	22·30	+4·67	+21	13·00	8·05	+4·95	+61	46·56	36·05	+10·51	+29
Madras	0·11	1·01	−0·90	−89	3·24	4·63	−1·39	−30	29·03	24·19	+4·84	+20	16·50	13·75	+2·76	+20	49·11	43·52	+5·53	+13
Mean of India	0·43	0·99	−0·56	−57	3·58	4·40	−0·82	−19	39·86	34·86	+5·00	+14	7·53	4·17	+3·36	+81	51·42	44·42	+7·00	+16

TABLE 30.—*Average over the 33 sub-divisions of the actual and normal rainfall for the four seasons of the year 1916, and for the whole year.*

SUB-DIVISION.	JANUARY AND FEBRUARY.				MARCH TO MAY.				JUNE TO SEPTEMBER.				OCTOBER TO DECEMBER.				WHOLE YEAR.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"		"	"	"		"	"	"		"	"	"		"	"	"	
1. Bay Islands	0	2·02	−2·02	−100	19·21	20·55	−1·34	− 7	63·23	64·92	− 1·69	− 3	22·37	20·78	+ 1·64	+ 8	104·81	108·22	− 3·41	—
2. Lower Burma	0·06	0·37	−0·3,	− 92	13·43	15·14	−1·71	−18	90·73	103·18	− 3·45	− 3	13·42	10·46	+ 2·96	+ 28	125·61	122·15	+ 3·54	− 3
3. Upper Burma	0·13	0·27	−0·14	− 52	5·72	7·37	−1·65	−22	34·19	29·65	+ 4·54	+ 15	9·94	7·77	+ 2·17	+ 28	49·98	45·06	+ 4·92	+ 11
4. Assam	1·95	2·04	−0·09	− 4	24·75	25·07	−0·32	− 1	59·64	65·31	− 5·67	− 9	10·42	6·40	+ 4·02	+ 63	96·76	98·82	− 2·06	− 2
5. Bengal	0·49	1·36	−0·87	− 64	9·93	12·43	−2·50	−20	64·25	55·66	+ 8·59	+ 15	13·87	5·33	+ 8·24	+155	88·24	74·78	+13·46	+ 18
6. Orissa	0·19	1·42	−1·23	− 87	2·59	5·68	−3·09	−54	42·52	44·25	− 1·73	− 4	12·36	5·41	+ 6·95	+128	57·66	56·76	+ 0·90	+ 2
7. Chota Nagpur	0·64	2·31	−1·67	− 72	1·54	3·58	−2·04	−57	38·05	43·48	− 5·43	− 13	9·90	2·49	+ 7·41	+298	50·13	51·86	− 1·73	− 3
8. Bihar	0·64	1·32	−0·68	− 52	1·81	3·38	−1·77	−53	50·38	41·25	+ 9·13	+ 22	6·12	2·63	+ 3·49	+133	58·75	48·58	+10·17	+ 21
9. United Provinces, East	0·72	1·21	−0·49	− 40	0·50	1·10	−0·60	−55	43·50	34·51	+ 8·99	+ 26	2·45	2·41	+ 0·04	+ 2	47·17	39·23	+ 7·94	+ 20
10. Do. do., West	0·79	1·83	−1·04	− 57	0·62	·38	−0·76	−55	43·78	33·34	+10·44	+ 31	2·54	1·43	+ 1·11	+ 78	47·73	37·98	+ 9·75	+ 26
11. Punjab, East and North	0·98	2·30	−1·32	− 60	0·95	1·90	−0·95	−50	23·72	17·98	+ 5·74	+ 32	1·29	0·85	+ 0·44	+ 52	26·89	23·03	+ 3·86	+ 17
12. Punjab, Southwest	0·33	1·05	−0·72	− 69	1·10	1·35	−0·25	−19	10·41	6·53	+ 3·88	+ 59	0·51	0·35	+ 0·16	+ 46	12·35	9·28	+ 3·07	+ 33
13. Kashmir	5·47	7·09	−1·62	− 23	5·17	9·07	−3·90	−43	26·36	22·19	+ 4·17	+ 19	1·46	2·89	− 1·43	− 49	38·46	41·24	− 2·78	− 7
14. North-West Frontier Province.	2·13	2·83	−0·70	− 24	4·03	4·44	−0·41	− 9	13·40	8·47	+ 4·93	+ 58	0·67	1·14	−0·47	− 41	20·23	16·93	+ 3·35	+ 20
15. Baluchistan	2·59	2·70	−0·11	− 4	1·46	3·01	−0·55	−27	4·66	1·89	+ 2·79	+148	0·07	1·03	−0·96	− 93	8·80	7·63	+ 1·17	+ 15
16. Sind	0·06	0·39	−0·33	− 86	0·09	0·41	−0·32	−78	10·77	5·29	+ 5·48	+104	0·05	0·16	−0·11	− 69	10·99	6·45	+ 4·54	+ 70
17. Rajputana, West	0·05	0·43	−0·42	− 97	0·73	0·56	+0·17	+30	15·68	11·74	+ 3·94	+ 34	0·76	0·26	+ 0·50	+192	17·23	13·04	+ 4·19	+ 32
18. Do., East	0·39	0·88	−0·39	− 57	0·39	0·79	−0·39	− 50	31·78	22·93	+ 8·85	+ 39	1·10	0·83	+ 0·27	+ 33	33·56	25·21	+ 8·35	+ 33
19. Gujarat	0	0·16	−0·16	−100	0·30	0·24	+0·06	+25	30·63	31·43	− 0·80	− 3	1·93	0·83	+ 0·69	+ 83	32·04	32·65	− 0·01	0
20. Central India, West	0·28	0·59	−0·31	− 53	0·63	0·48	+0·31	+44	43·12	31·50	+11·62	+ 37	2·82	1·01	+ 1·81	+179	46·91	33·58	+13·33	+ 40
21. Do. do., East	0·40	1·16	−0·76	− 66	0·14	0·79	−0·65	−82	43·27	35·05	+ 8·22	+ 23	4·53	1·58	+ 2·96	+187	43·35	38·58	+ 0·77	+ 25
22. Berar	0·29	0·61	−0·32	− 53	1·28	0·96	+0·33	+35	40·70	28·17	+12·53	+ 44	4·90	2·46	+ 2·44	+ 99	47·17	32·19	+14·98	+ 47
23. Central Provinces, West	0·95	1·05	−0·20	− 19	0·80	1·14	−0·34	−30	47·18	40·97	+ 6·21	+ 15	8·57	2·18	+ 6·39	+293	57·40	45·34	+12·06	+ 27
24. Do. do., East	1·01	1·13	−0·11	− 10	0·78	2·10	−1·32	−63	44·04	40·37	+ 1·43	+ 3	7·44	2·46	+ 4·98	+202	54·17	52·05	+ 2·12	+ 4
25. Konkan	0	0·13	−0·13	−100	1·77	1·94	−0·07	− 4	113·56	102·44	+11·12	+ 11	13·23	4·90	+ 8·33	+170	128·55	109·31	+19·24	+ 18
26. Bombay Deccan	0·01	0·20	−0·19	− 95	2·24	2·14	+0·10	+37	37·60	24·42	+ 3·18	+ 13	10·41	4·13	+ 6·28	+152	50·06	30·89	+19·07	+ 33
27. Hyderabad, North	0·31	0·28	+0·03	+ 11	1·55	1·53	+0·02	+ 1	35·48	29·50	+ 5·98	+ 20	7·14	3·59	+ 3·55	+ 99	44·48	34·20	+ 9·58	+ 27
28. Do., South	0·10	0·37	−0·27	− 73	2·26	2·05	+0·21	+10	33·27	23·97	+ 9·30	+ 39	15·17	4·19	+10·98	+262	50·80	30·68	+20·22	+ 65
29. Mysore	0	0·23	−0·23	−100	6·59	5·47	+1·12	+20	26·97	22·30	+ 4·67	+ 21	13·00	8·05	+ 4·95	+ 61	46·56	36·05	+10·51	+ 29
30. Malabar	0·08	0·59	−0·51	− 86	9·05	10·67	−1·62	−15	105·21	102·29	+ 2·92	+ 3	16·80	13·96	+ 2·84	+ 20	131·14	127·51	+ 3·63	+ 3
31. Madras, Southeast	0·13	1·42	−1·29	− 91	2·87	4·71	−1·84	−39	15·41	11·70	+ 3·71	+ 32	15·63	17·24	− 1·62	− 9	34·03	35·07	− 1·04	− 3
32. Madras Deccan	0·02	0·25	−0·23	− 92	2·52	2·47	+0·05	+ 2	23·95	14·93	+ 9·02	+ 60	13·68	6·70	+ 6·98	+104	40·17	24·35	+15·82	+ 65
33. Madras Coast, North	0·11	0·74	−0·63	− 85	2·35	3·53	−1·18	−33	30·24	24·70	+ 5·54	+ 23	18·26	10·64	+ 8·24	+ 78	52·74	39·61	+13·13	+ 33

TABLE 31.—*Average over the 33 sub-divisions of the actual and normal number of rainy days for the four seasons of the year 1916, and for the whole year.*

SUB-DIVISION.	JANUARY AND FEBRUARY.			MARCH TO MAY.			JUNE TO SEPTEMBER.			OCTOBER TO DECEMBER.			WHOLE YEAR.		
	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.
1. Bay Islands	0	3·0	−3·0	15·0	21·7	−6·7	77·0	78·4	−1·4	27·5	26·7	+0·8	119·5	129·8	−10·3
2. Lower Burma	0·1	0·6	−0·5	15·3	15·7	−0·4	90·0	90·9	−0·9	16·2	14·3	+1·9	121·6	121·5	+0·1
3. Upper Burma	0·4	0·7	−0·3	9·1	11·0	−1·9	45·8	43·0	+2·8	13·9	11·0	+2·9	69·2	64·7	+4·5
4. Assam	5·2	5·0	+0·2	30·8	32·9	−2·1	68·3	68·3	−0·5	11·0	8·7	+3·2	111·7	114·9	−3·2
5. Bengal	0·8	2·5	−1·7	11·6	15·6	−4·0	63·1	60·0	+3·1	13·2	6·0	+7·2	88·7	84·1	+4·6
6. Orissa	0·5	2·4	−1·9	5·0	9·2	−4·2	56·4	53·6	+2·8	14·2	6·8	+7·4	76·1	72·2	+3·9
7. Chota Nagpur	1·6	4·3	−2·7	3·1	7·9	−5·0	53·8	53·8	0	13·0	3·8	+9·2	70·5	67·9	+2·6
8. Bihar	1·5	2·8	−1·3	2·7	5·5	−2·8	53·6	45·7	+7·9	7·3	3·1	+4·2	65·1	57·1	+8·0
9. United Provinces, East	1·6	2·7	−1·1	1·3	2·4	−1·2	48·9	38·1	+10·8	4·5	2·5	+2·0	56·2	45·7	+10·5
10. Do. do. West	1·9	3·6	−1·7	1·4	3·1	−1·7	44·5	34·1	+10·4	3·3	1·9	+1·4	51·1	42·7	+8·4
11. Punjab, East and North	2·4	4·3	−1·9	2·0	4·2	−1·6	25·2	19·5	+5·9	1·4	1·5	−0·1	31·7	20·5	+2·2
12. Do., Southwest	0·9	2·6	−1·7	3·0	3·4	−0·4	13·1	8·6	+4·5	0·9	0·8	+0·1	17·9	15·4	+2·5
13. Kashmir	8·5	9·9	−1·4	11·8	14·6	−2·8	28·5	24·1	+4·4	2·7	4·5	−1·8	51·5	53·1	−1·6
14. North-West Frontier Province	6·6	5·6	+1·0	9·5	9·0	+0·5	15·9	12·1	+3·8	1·1	2·1	−1·0	33·1	28·8	+4·3
15. Baluchistan	5·7	6·0	−0·3	4·2	5·3	−1·1	7·3	3·3	+4·0	0·3	2·6	−2·3	17·5	17·2	+0·3
16. Sind	0·3	1·6	−1·3	0·4	1·0	−0·6	13·2	6·1	+7·1	0·2	0·3	−0·1	14·1	9·0	+5·1
17. Rajputana, West	0·2	1·1	−0·9	1·5	4·5	0	19·3	14·8	+4·5	1·1	0·5	+0·6	22·1	17·9	+4·2
18. Do., East	0·6	1·7	−1·1	0·8	1·9	−1·1	37·9	27·8	+10·1	2·3	1·3	+1·0	41·6	32·7	+8·9
19. Gujarat	0	0·4	−0·4	0·5	0·5	0	41·2	36·8	+6·4	2·6	1·3	+1·3	44·3	37·0	+7·3
20. Central India, West	0·9	1·4	−0·5	1·7	1·3	−0·2	46·0	37·9	+8·1	4·9	1·7	+3·2	53·9	43·3	+10·6
21. Do. do., East	1·2	2·4	−1·2	0·5	1·9	−1·4	46·5	37·2	+8·3	6·4	2·1	+4·3	53·6	43·6	+10·0
22. Berar	0·7	1·2	−0·5	2·3	2·3	0	51·3	35·7	+12·6	3·9	3·6	+5·3	63·2	45·8	+17·4
23. Central Provinces, West	1·7	2·1	−0·4	1·3	2·6	−1·3	50·0	47·2	+8·8	9·7	3·1	+6·6	68·7	55·0	+13·7
24. Do. do, East	1·8	2·1	−0·3	2·1	4·3	−2·2	54·8	51·1	+3·7	9·3	3·6	+5·7	68·0	61·1	+6·9
25. Konkan	0	0·3	−0·3	2·9	3·5	+0·6	92·6	84·5	+8·1	15·2	7·6	+8·2	110·7	94·3	+16·4
26. Bombay Deccan	0	0·6	−0·6	5·5	4·0	+1·5	45·1	37·4	+5·7	14·4	6·3	+8·1	63·0	48·2	+14·8
27. Hyderabad, North	0·6	0·6	0	3·7	3·4	−0·1	49·5	41·0	+8·5	13·6	5·2	+8·4	67·0	50·2	+16·8
28. Do., South	0·2	0·8	−0·6	4·6	4·3	+0·3	45·8	37·7	+8·1	17·7	6·4	+11·3	68·3	49·2	+19·1
29. Mysore	0	0·4	−0·4	10·5	9·0	+1·5	39·0	33·6	+5·4	16·9	12·1	+4·8	66·4	55·1	+11·3
30. Malabar	0·3	0·8	−0·5	12·7	13·0	−0·3	92·7	85·3	+7·4	22·6	7·8	+14·2	127·7	106·9	+20·8
31. Madras, Southeast	0·4	2·0	−1·6	5·0	7·0	−2·0	32·0	18·2	+3·8	20·3	12·6	+7·7	47·7	39·8	+7·9
32. Madras Deccan	0·1	0·2	−0·1	4·8	4·3	+0·5	34·7	25·1	+9·6	16·0	4·4	+11·6	55·6	34·0	+21·6
33. Madras Coast, North	0·3	0·8	−0·5	4·3	5·5	−1·2	43·7	35·3	+7·4	19·8	10·6	+8·9	67·1	52·5	+14·6

I.—The cold weather period:—

(*a*) The period was singularly free from rain-producing depressions, being in fact one of the driest on record, and the total rainfall over the plains of India fell short of the normal by 0·6″ or 57 per cent. The defect was common to practically the whole country; and it equalled or exceeded half an inch in the provinces of Bengal, Bihar and Orissa, the United Provinces, the Punjab, the North-West Frontier Province, Sind, Central India and Madras, over the greater part of which areas the normal quantity of rainfall received during the period ranges between half an inch and two inches.

(*b*) In Baluchistan the recorded fall was almost equal to the average, while in Kashmir it was in defect by 23 per cent. In Persia, on the other hand, the aggregate of the season was well above normal.

(*c*) In sub-equatorial regions the rainfall was nearly normal at Zanzibar and Mauritius but greatly in defect at Seychelles.

TABLE 32.

Station.	Rainfall of period, January and February.			
	Actual.	Normal.	Departure from Normal.	Percentage departure from normal.
	″	″	″	
Aden	0·10	0·61	−0·51	−84
Bushire	4·90	4·74	+0·16	+3
Tehran	3·89	2·73	+1·16	+42
Jask	2·86	1·65	+1·21	+73
Muscat	5·02	1·86	+3·16	+170
Meshed	2·37	1·71	+0·66	+39
Kabul	2·37	2·93	−0·56	−19

II.—The hot weather period:—

(*a*) The dryness of the previous season persisted through March and April, and rainfall was again in defect over by far the greater part of the country. In May, however, cold weather actions caused somewhat heavier precipitation than usual along the north-west frontier, and thunderstorms were unusually abundant over the central parts of the country, but in most other places the weather was drier even than usual. The total rainfall of the season was above normal by 27 per cent. in Bombay and 20 per cent. in Mysore, within 10 per cent of the average in Assam, the North-West Frontier Province and Hyderabad, and deficient in all other provinces. The defect was greatest and amounted to about 2″ in Burma, Bengal and Bihar and Orissa.

(*b*) The general deficiency of rainfall during this period extended to Kashmir and Baluchistan but in Persia generally and at Kabul the total fall was appreciably above normal; Kabul had 8·10″ in April against a normal of 2·56″.

(*c*) At the stations in the Indian Ocean rainfall was in defect in March. At Zanzibar it was greatly in excess in April and below normal in May. The total fall of the season was well above the average at Zanzibar and Mauritius and normal at Seychelles.

TABLE 33.

Station.	Departure from normal of rainfall in			
	March.	April.	May.	Period, March to May.
	″	″	″	″
Aden	−0·62	−0·20	−0·12	−0·94
Basrah	+0·23	+1·00	−0·45	+0·78
Bushire	−0·07	+1·57	−0·02	+1·48
Tehran	+4·14	+1·41	+1·96	+7·51
Ispahan	...	0·00	−0·01	...
Jask	−0·04	+2·26	0·00	+2·22
Muscat	−0·56	+3·76	0·00	+3·20
Meshed	+0·55	−0·29	−0·48	−0·22
Kabul	−2·85	+5·24	+0·85	+3·24

TABLE 34.

Station.	Departure from normal of rainfall in			
	March.	April.	May.	Period, March to May.
	″	″	″	″
Zanzibar	−3·72	+19·50	−7·07	+8·71
Seychelles	−2·29	+1·02	+2·29	+1·02
Mauritius	−2·14	+0·55	+3·94	+2·35

III. The south-west monsoon period:—The monsoon rains were on the whole exceptionally heavy, and in this respect contrasted very favourably with those of 1915.

The Arabian Sea monsoon arrived on the west coast at about the average date, while the Bay current appeared in northeast India upwards of a week earlier than usual. The establishment of monsoon conditions in the interior occurred in the normal manner. Both currents were more active than usual until the 26th June, when a break set in over by far the greater part of the country; this lasted up to the 2nd July in the Peninsula and another five days in northern and central India. Strongly marked

monsoon conditions prevailed generally from the 8th to the 20th July, but during the rest of the month the monsoon was somewhat inactive outside the Peninsula.

During August and September the currents were remarkably vigorous, and abundant rainfall occurred in almost all parts of the country, but particularly over most of the comparatively dry zone of northwest India.

A conspicuous feature of the season was the small number of cyclonic storms.

The rainfall of the whole season was in defect by 9 per cent in Assam and by 12 per cent in Chota Nagpur; within 5 per cent of the normal in the Bay Islands, Lower Burma, Orissa, Gujarat, the Central Provinces East and Malabar, and in excess in the rest of the country. The excess was large (*i.e.* upwards of 50 per cent) in the North-West Frontier Province, the Punjab Southwest, Baluchistan, Sind and the Madras Deccan, and considerable (between 20 and 50 per cent) in Bihar, the United Provinces, the Punjab East and North, Rajputana, Central India, Berar, Hyderabad, Mysore, Madras Southeast and the Madras Coast North.

On the general average of all the rainfall-recording stations in the plains of India there was an excess of 5" or 14 per cent, which is the largest on record.

Rainfall was above normal in Kashmir and Arabia. In Persia it was irregularly distributed but so far as may be judged from the imperfect information available it was on the whole up to the small average. The weather was practically dry at Kabul.

During the season as a whole rainfall was in defect at all the three stations in the Indian Ocean.

TABLE 35.

STATION.	RAINFALL OF PERIOD, JUNE TO SEPTEMBER.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Aden	0·88	0·37	+0·51	+138
Busrah	0	0·19	—0·19	—100
Bushire	0	0·01	—0·01	—100
Ispahan	0	0·08	—0·08	—100
Jask	0·29	0·06	+0·23	+383
Muscat	0·58	0·17	+0·41	+241
Meshed	0·54	0·45	+0·09	+20
Kabul	0·01	0·55	—0·54	— 98

IV. The retreating south-west monsoon period.—

Meteorologically there was a strong resemblance between this period and the corresponding season of 1915. In October the monsoon was remarkably active and provided abundant rainfall over nearly the whole country. Four disturbances occurred in the course of the month, the first of the series being the cause of widespread monsoon rainfall on the 3rd and 4th over the Punjab where, as a rule, the final burst of the monsoon rainfall is recorded in the second or third week of September. A very vigorous monsoon prevailed also in November, and rainfall was heavy for the time of the year in most parts of the country with the exception of northwest India, where weather was drier even than usual. Three storms arose over the Bay and travelled inland; the third was a severe disturbrbance when crossing the coast near Madras on the early morning of the 28rd and caused much loss of life and property. A burst of unseasonable rainfall occurred in its connection in the central parts of the country on the 24th and 25th. The monsoon was weaker than usual in December, and withdrew from the south of the Peninsula on the 9th, a week before the customary date. Conditions were, however, disturbed in the Andaman Sea during the last week, and were responsible for a late burst of rain over the greater part of Burma on the 27th. In northern India weather was unusually dry except along the northwest frontier, where a disturbance of the winter type occasioned rain and snow about the middle of the month. The snowfall is said to have been heavy in Chitral, amounting to about six feet on the Lowarai Pass.

Notwithstanding the prevalence of unusually dry weather over most of the country during December the total rainfall of the whole season exceeded the normal in all the larger provinces with the exception of Sind and the North-West Frontier Province. The excess was less than an inch in amount in the United Provinces, the Punjab and Rajputana, between 2 inches and 3 inches in Burma, Central India, and Madras, and upwards of 3 inches in Mysore, Hyderabad, the Central Provinces, Bombay and north-east India.

Hardly any precipitation occurred in Baluchistan and it was much below the average in Kashmir, Persia and Arabia as well as at Kabul.

Taking the period as a whole rainfall was greatly in defect at the three stations in the Indian Ocean.

TABLE 36.

STATION.	DEPARTURE FROM NORMAL OF RAINFALL IN			
	October.	November.	December.	Period, October to December.
	"	"	"	"
Aden	—0·08	—0·10	—0·01	—0·19
Busrah	—0·08	—0·87	—0·68	—1·63
Bushire	—0·10	—1·56	—1·64	—3·30
Tehran	...	...	—1·07	...
Ispahan	...	—0·68	—0·75	...
Jask	—0·04	—0·32	—0·65	—1·01
Muscat	+0·71	—0·35	—0·62	—0·26
Meshed	—0·21	—0·48	—0·75	—1·44
Kabul	+0·49	—0·03	—0·51	—0·76

The year.—I.—During the cold season the weather was much less disturbed than usual, and the rainfall was more or less below the normal over nearly the whole country.

II.—The period March to May was also unusually dry, Bombay, Mysore and Hyderabad being the only divisions where the seasonal fall exceeded the normal. In Bihar and Orissa, the United Provinces and Sind the recorded amounts were upwards of 50 per cent. in defect.

III.—The monsoon was exceptionally active and provided abundant rainfall over most parts of the country.

IV.—Weather was abnormally wet in October and November, and was remarkably dry in December.

V.—The total rainfall of the year which was one of the wettest on record exceeded the normal by 7″ or 16 per cent, a greater excess than this having occurred only twice before in 1878 and 1893. The excess was not distributed over the whole year, for the first five months as well as July and December were drier than usual.

In Persia, as far as information is available, and at Kabul the rainfall of the year was above the average, the excess at Kabul being due to the excessive fall in April.

Of the stations in the Indian Ocean the year's fall was practically normal at Zanzibar and Mauritius, but was greatly in defect at Seychelles.

TABLE 37.

Station.	Annual Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal
	″	″	″	
Aden	1·11	2·24	−1·13	−50
Busrah	8·40	6·23	+2·17	+35
Bushire	9·40	11·07	−1·67	− 5
Jask	6·82	4·17	+2·65	+64
Muscat	10·45	3·94	+6·51	+165
Meshed	8·46	9·37	−0·91	−10
Kabul	14·27	12·89	+1·38	+11

TABLE 38.

Period.	Rainfall of India (when the size of areas is taken into account) in 1916.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	″	″	″	
Cold weather	0·43	0·99	−0·56	−57
Hot „	3·58	4·40	−0·82	−19
Southwest monsoon	39·86	34·86	+5·00	+14
Retreating southwest monsoon.	7·53	4·17	+3·36	+81
Whole year	51·42	44·42	+7·00	+16

S. SITARAMAYYA.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 12 stations in India, etc., in the year 1916.

TABLE

Abstract of observations taken at 10 hrs. and 16 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure.						Temperature of air.									
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea-level and to gravity at 45° Lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	III.—Bengal.																	
5	Calcutta	21	29·823	29·703	·129	29·761	—·027	29·729	87·7	71·5	16·2	105·4	49·2	56·2	81·7	85·1	79·0	+1·6
	VI.—Punjab.																	
11	Lahore	702	29·106	29·017	·089	29·016	—·055	29·720	88·4	63·1	25·3	112·1	34·2	77·9	78·3	87·2	74·7	0
	IX.—Rajputana.																	
18	Jaipur	1,431	28·408	28·302	·106	28·349	—·028	29·713	90·0	64·9	25·1	113·5	35·0	77·5	80·7	87·0	77·0	—0·1
	X.—Bombay.																	
25	Bombay	37	29·850	29·749	·101	29·796	—·029	29·776	86·1	75·7	10·4	94·1	59·2	34·9	80·9	83·2	79·8	+0·5
	XIV.—Mysore.																	
29	Bangalore	3,021	26·930	26·827	·112	26·887	—·014	29·719	84·4	64·4	20·0	98·7	60·1	38·6	76·5	81·5	78·0	+0·2
	XV.—Madras.																	
31	Pudukkottai	318	29·503	29·457	·126	29·525	...	29·769	89·2	73·9	19·3	98·5	69·1	29·4	84·9	90·0	83·5	...
	Madras	22	29·869	29·737	·132	29·815	—·028	29·799	91·1	74·9	16·2	97·1	70·3	26·8	86·1	86·5	81·9	+0·1
	Hill stations, excluding Kashmir and Baluchistan.																	
	Sanain	...	23·131	23·071	·060	23·093	...	23·055	52·3	43·3	19·6	69·9	36·5	33·4	55·7	58·1	53·2	...
	Katmandu	4,386	25·688	25·581	·107	25·621	+·056	25·575	78·0	54·3	23·7	84·0	48·0	36·0	67·4	74·1	65·9	+1·3
	Kodaikanal	7,688	22·826	22·765	·061	22·795	...	22·730	65·9	50·8	15·1	70·8	46·8	24·0	62·1	60·0	58·4	...
	Extra India.																	
	Seychelles	15	29·963	29·872	·091	29·923	—·021	29·863	82·7	77·8	4·9	84·8	75·2	9·6	80·9	81·8	79·0	+0·01
	Mauritius	181	...	...	...	29·793	—·091	29·930	79·7	67·0	12·7	83·1	61·3	21·8	...	...	72·8	—0·5

N. B.—Elevations in italics indicate barometric determinations.
NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations the elevations of which exceed 3,200 feet.

A.

at 12 stations in India, etc., in the year 1916.

Temperature, Wet-bulb.				Vapour Tension in inches of mercury.					Humidity.					Cloud.				Rainfall.		Station.	Number of sub-division.
Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Total rainfall for the year.	Heaviest rainfall during the year.		
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
																				III.—Bengal.	
69·0	73·7	73·6	72·3	·709	·763	·705	·737	+·007	88	67	58	74	— 3	4·5	4·7	4·6	0	62·79	5·20	Calcutta	5
																				VI.—Punjab.	
58·4	66·1	69·2	64·6	·437	·524	·508	·515	+·017	76	51	38	57	+ 1	2·4	2·1	2·3	—0·6	24·84	7·86	Lahore	11
																				IX.—Rajputana.	
57·9	65·0	66·3	63·0	·447	·441	·407	·438	—·027	65	39	31	48	— 5	2·9	3·9	3·4	—0·3	23·68	3·06	Jaipur	19
																				X.—Bombay.	
70·9	75·3	76·0	74·0	·702	·805	·809	·790	—·002	78	75	71	77	— 1	4·4	4·2	4·3	+0·5	86·07	6·52	Bombay	25
																				XIV.—Mysore.	
61·9	67·0	67·0	65·3	·531	·557	·496	·537	—·005	88	62	49	69	+ 1	5·3	5·7	5·5	...	53·04	4·61	Bangalore	29
																				XV.—Madras.	
...	74·0	74·5	...	...	·695	·647	...	...	...	59	47	...	...	5·0	5·9	5·5	...	36·90	2·86	Pudukkottai	31
72·6	76·7	77·4	75·5	·777	·795	·818	·814	+·005	90	64	65	75	— 1	4·2	4·3	4·3	—0·7	46·33	3·53	Madras.	
																				Hill stations, excluding Kashmir and Baluchistan.	
...	45·0	46·5	...	...	·275	·290	...	...	...	57	57	...	...	4·7	5·3	5·1	...	66·53	3·43	Sarain.	
51·9	60·3	62·8	58·2	·391	·465	·463	·440	—·009	85	66	54	70	— 3	4·3	5·1	4·7	+0·2	48·12	3·71	Katmandu.	
46·3	54·0	55·1	51·8	·273	·337	·386	·332	...	73	63	76	70	...	4·8	7·3	5·9	...	56·39	2·37	Kodaikanal.	
																				Extra India.	
71·5	75·7	76·0	74·4	·688	·821	·823	·796	—·016	73	77	75	77	+ 4	5·7	6·0	5·9	—0·3†	67·36	4·69	Seychelles.	
...	...	..	67·9	...	...	...	·620	0	...	...	...	76	+ 1	...	...	5·6	...	49·79	3·14	Mauritius.	

† Departure from old normals.

Table B.—Abstract of observations taken at 8 hrs. at 218 stations in India, etc., in the year 1916.

(1) Provincial means.

(2) Data of stations.

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(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal of year.	Temperature of air.							Wind	Hygrometry.				Cloud.		Rainfall.		
		Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Departure of velocity from normal.	Mean humidity of year.	Departure from normal of year.	Mean vapour tension of year.	Departure from normal of year.	Mean cloud amount of year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.
	"	°	°	°	°	°	°	°				"	"			"	"	"
Burma	—·016	87·4	—0·3	70·5	—0·2	79·0	0·2	16·9	0	84	—1	·738	—·018	5·4	+0·2	79·64	78·12	+1·52
Assam	—·016	83·8	+0·1	66·2	+0·7	75·3	+0·4	17·0	+0·2	88	—1	·703	+·003	5·4	—0·1	96·76	98 32	—2·06
Bengal	—·015	86·3	0	69·8	+0·4	78·1	+0·2	16·5	—0·2	84	0	·748	—·003	4·5	+0·2	88·24	74·78	+13·46
Bihar and Orissa	—·014	88·1	—0·2	69·2	+0·4	78·5	+0·1	19·2	0	75	—1	·662	—·004	3·9	+0·3	56·40	51·43	+4·97
United Provinces of Agra and Oudh	—·016	86·4	—0·8	66·1	+0·1	77·3	+0·4	22·3	—0·2	67	—2	·567	—·009	2·9	0	47·48	38·58	+8·90
Punjab	—·014	88·5	—0·4	63·9	+0·1	76·2	—0·2	25·0	+0·5	68	0	·498	+·003	2·7	+0·1	23·35	19·64	+3·71
North-West Frontier Province	—·025	87·7	+0·1	61·5	+0·7	74·6	+0 3	26·1	—0·7	65	+1	·493	+·006	2 9	+0·4	20·28	16·93	+3·35
Sind	—·017	91·1	+0·1	68·7	+0·4	80·0	+0·3	22·4	—0 8	64	+1	·598	+·016	2·3	—0·2	10·99	6·45	+4·54
Rajputana	—·022	90·5	—1·1	67·0	—0·1	78·8	—0·6	23·5	—0·2	52	—2	·466	—·016	2·9	+0·1	28·22	21·49	+6·73
Bombay	—·028	89·1	—0·4	69·4	+0·3	79·2	0	19·7	—1·0	69	+1	·639	+·002	3·9	+0·4	53·97	45·52	+8·45
Central India	—·022	87·8	—0·8	65·4	+0·5	76·6	—0·2	22·5	—0·2	63	+1	·522	+·003	3·3	+0·3	47·53	36·07	+11·46
Central Provinces	—·023	89·2	—0·8	67·6	+0·6	78·4	—0·1	21·6	+0 1	62	0	·531	+·003	3·9	+0·3	33·27	44·26	+9·01
Hyderabad	—·024	90·5	—0·5	69·9	+0·7	80·2	+0·1	20·5	—1·0	66	+2	·598	+·014	4·2	+0·7	47·46	32·84	+14·62
Mysore	—·021	84·8	—0·5	65·3	+0·4	75·0	—0·1	19·5	+0·6	77	+1	·586	—·001	5·0	—0·3	46·56	36·04	+10·52
Madras	—·021	90·1	—0·4	74·1	+0·1	82·1	—0·1	16·0	+0·4	77	+1	·768	—·001	4·5	—0·1	49·11	43·58	+5·53

TABLE

(2) *Abstract of observations taken at 8 hrs. at 218*

Number of sub-division.	Station.	Height of bar-ometer above sea-level in feet.	Pressure, 8 hrs., in inches.					Temperature of air.									
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and constant gravity at 45° Lat.	Highest pressure of year.	Lowest pressure of year.	Mean of 8 hrs. dry bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly range of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	I.—Burma.																
2	Victoria Point	147	29·765	...	29·843	29·936	29·611	78·3	85·0	...	74·2	...	79·6	...	16·8	95·0	67·3
	Mergui	66	29·849	+·019	29·845	30·048	29·661	76·6	86·3	−1·2	71·64	−0·2	78·9	−0·7	14·6	97·5	59·9
	Tavoy	19	29·892	−·061	29·844	30·100	29·682	75·9	87·5	−0·8	71·7	+0·1	79·7	−0·1	15·8	98·4	58·8
	Moulmein	94	29·827	−·002	29·860?	30·071	29·575	76·5	87·8	−0·3	71·7	−0·6	79·7	−0·5	15·1	98·8	59·0
	Rangoon	18	29·895	−·007	29·941	30·158	29·634	76·0	86·3	−1·0	72·2	−0·8	80·3	−0·9	16·1	101·4	58·2
	Bassein	27	29·868	−·013	29·832	30·146	29·575	76·0*	87·5*	+0·2*	72·6*	−0·1*	80·1*	+0·2*	15·0*	101·5	58·4
	Diamond Island	41	29·840	−·025	29·816	30·103	29·550	80·0	84·9	−0·4	76·5	+0·8	89·7	+0·2	8·4	99·4	67·6
	Tonngoo	164	29·732	−·005	29·840	30·020	29·430	75·5	89·4	−0·7	62·2	−2·8	70·1	−2·3	39·2	102·5	53·1
	Kyaukpyu	18	29·857	...	29·815	30·162	29·497	77·0	84·4	...	72·8	...	78·6	...	11·6	95·3	56·2
	Akyab	20	29·852	−·015	29·813	30·164	29·471	75·1	85·1	−0·8	7 ·6	−1·5	77·9	−1·1	14·6	98·3	53·8
3	Minbu	165	29·712	−·013	29·823	30·042	29·390	75·8	90·8	−0·8	7 ·2	−0·2	89·0	−0 5	19·5	109·6	51·0
	Yamethin	641	29·227	−·014	29·832	29·515	28·918	74·7	90·3	−1·0	70·1	+0·5	80·2	−0·3	20·2	106·0	53·9
	Mandalay	260	29·626	−·008	29·827	29·957	29·305	77·3	93·7	+1·1	71·8	+0·5	82·2	+0·9	22·0	111·6	53·2
	Monywa	289	29·588	−·022	29·820	29·914	29·265	75·5	92·5	+1·3	71·6	−0·1	81·8	+0·6	21·5	112·6	50·9
	Lashio	2,820	27·075	−·034	27·921	27·363	26·789	66·0	81·6	−0·85	61·5	+1·2	71·5	+0·3	20·1	98·1	43·0
	Bhamo	362	29·501	−·005	29·824	29·805	29·169	69·8	86·4	+0·5	64·7	−0·4	75·6	+0·1	21·7	105·4	42·6
	Myitkyina	458	29·392	−·023	29·818	29·755	29·069	69·4	84·4	+0·1	66·0	+0·2	75·2	+0·1	18·3	103·6	49·3
	II.—Assam.																
4	Dibrugarh	355	29·510	−·025	29·833	29·911	29·131	70·1	80·7	−0·2	66·1	+1·2	73·4	+0·5	14·7	98·2	42·6
	Sibsagar	333	29·548	−·015	29·847	29·952	29·172	70·1	80·8	−0·7	64·9	−0·9?	72·8	−0·8?	15·9	96·0	39·3
	Tezpur	252	29·620	−·010	29·837	30·008	29·229	70·4	83·3	+0·2	67·4	+0·6	75·4	+0·4	15·2	97·0	42·7
	Gauhati	196	29·680	−·010	29·835	30·046	29·257	72·9	84·5	+0 1	67·2	+1·3	75·8	+0·6	17·3	99·1	45·3
	Dhubri	115	29·736	−·015	29·807	30·141	29·332	73·8	82·5	−0·4	68·9	+1·0	75·7	+0·3	13·6	99·3	48·3
	Silchar	104	29·769	−·019	29·823	30·121	29·350	72·4	86·1	+0·1	67·9	+0·4	77·1	+0·3	18·3	98·5	47·5
	Srimangal	66	29·774	...	29·701	30·145	29·376	71·8	83·5	+0·9	65·5	0	76·9	+0·5	22·9	100·4	38·8
	III.—Bengal.																
5	Cox's Bazar	36	29·826	...	29·807	30·254	29·414	75·5	85·2	...	69·4	...	77·3	...	15·8	98·3	49·7
	Chittagong	87	29·774	−·015	29·808	30·126	29·334	73·9	85·0	+0·2	64·4	0	77·2	+0·1	15·7	98·4	47·9
	Noakhali	43	29·820	−·006	29·811	30·179	29·368	75·5	85·1	+0·5	70·3	+1·4	77·7	+0·9	14·8	98·4	47·3
	Barisal	12	29·839	+·008	29·798	30·210	29·339	76·1	85·7	−0·2	70·6	+0·3	78·1	+0·1	15·1	98·7	47·6
	Naraynganj	26	29·820	−·017	29·796	30·187	29·363	75·4	86·1	−0·2	70·8	+0·3	78·5	+0·1	15·3	100·7	46·7
	Mymensingh	63	29·788	−·015	29·803	30·163	29·360	73·4	85·6	+0·9	69·8	+1·2	77·7	+1·1	15·8	103·9	47·1
	Bogra	75	29·769	−·016	29·797	30·158	29·331	73·0	86·3	0	66·6	+0·5	77·4	+0·3	12·7	100·2	45·8
	Dinajpur	123	29·716	−·012	29·796	30·140	29·278	73·5	85·6	−0·5	67·6	+0·9	76·6	+0·2	13·0	100·8	44·0
	Jalpaiguri	283	29·563	−·015	29·810	29·979	29·179	70·3	84·3	+0·3	66·5	+0·4	75·4	+0·3	12·7	98·2	42·6
	Sanzor Island	10	29·826	−·011	29·781	30·246	29·198	77·3	84·9	−0·7	72·0	−1·6	78·5	−1·1	12·9	97·4	46·9

N.B.—Elevations in italics indicate barometrical determinations.
* Mean of 11 months.

B.

stations in India, etc., in the year 1916.

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Wind velocity. Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Hygrometry, 8 hrs. Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Cloud. Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Rainfall. Number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	Station.
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
																								I.—Burma.
92	10	169	64	94	16	21	14	8	5·8	...	...	·81	...	·784	...	5·6	...	147	...	137·81	...	...	3·11	Victoria Point.
293	6	12	20	26	6	2	1	2	2·0	1·4	+0·6	·90	+ 9	·814	—·017	4·2	— 0·3	141	—14·7	145·47	163·22	—17·75	6·66	Mergui.
211	32	46	11	25	30	6	1	4	1·9	1·1	+0·8	86	+ 2	·776	—·030	4·6	+ 0·7	116	—31·0	206·76	215·84	— 9·08	6·60	Tavoy.
18	3	59	108	39	55	27	7	6	5·2	2·3	+3·9	87	0	·780	—·021	5·5	+ 0·5	128	—11·9	167·20	167·86	—20·66	8·00	Moulmein.
26	48	67	44	31	64	39	25	30	3·7	3·1	+0·6	86	— 1	·786	—·020	8·0	+ 3·7*	126	+ 3·6	104·54	97·63	+ 6·91	4·83	Rangoon.
183	9	18	23	21	86	18	33	27	3·3	3·2	+0·1	87*	— 2*	·819*	—·007*	5·6	+ 1·1	124	— 1·8	118·92	109·77	+ 9·15	6·12	Bassein.
12	44	61	37	22	32	59	47	52	7·6	6·4	+1·4	79	— 1	·811	—·018	4·5	— 0·6	111	— 1·9	117·03	116·61	+ 0·42	5·40	Diamond Island.
69	51	46	10	90	81	11	1	17	2·3	2·4	—0·1	86	0	·764	—·021	5·3	0	122	+ 7·7	76·23	82·26	— 6·03	3·75	Toungoo.
263	4	9	22	42	8	2	5	11	1·2*	...	...	86	...	·806	...	6·7	...	135	...	176·41	...	...	8·48	Kyaukpyu.
25	49	73	49	46	16	25	6	9	3·1	2·3	+0·8	88	— 1	·797	—·010	5·2	+ 0·2	135	+11·2	209·02	181·44	+27·58	15·33	Akyab.
82	9	1	12	175	33	5	7	76	3·2	6·4	—3·2	76	0	·690	—·014	4·6	+ 0·7	55	— 7·3	45·39	34·39	+11·00	4·70	Minbu.
168	4	1	7	91	70	10	2	13	1·7	4·2	—2·5	79	0	·697	- ·020	5·4	— 0·6	76	+25·6	50·24	38·65	+11·59	5·60	Yamethin.
191	5	3	7	90	59	7	3	1	2·4	3·7	—1·3	73	— 2	·688	—·017	3·2	+ 0·4	52	+ 1·7	31·30	32·97	— 1·67	3·60	Mandalay.
83	79	17	13	111	27	1	0	36	2·1	...	...	75	— 4	·674	- ·040	5·2	+ 0·5	45	+ 0·9	30·56	32·18	— 1·32	5·11	Mogiwa.
201	16	53	5	4	10	57	7	13	2·3	...	...	84	— 2	·549	—·014	8·0	— 0·3	86	—12·8	49·54	62·25	—13·71	3·70	Lashio.
228	34	32	1	2	0	7	2	4	0·9	1·6	—0·7	96	+ 1	·627	0	6·7	+ 1·6	95	— 4·6	64·53	71·69	— 7·16	4·45	Bhamo.
335	2	11	7	4	3	2	0	1	1·5	...	...	87	+ 1	·648	—·026	6·2	+ 0·3	97	+ 8·0	73·91	76·14	— 2·23	5·46	Myitkyina.
																								II.—Assam.
227	12	81	47	13	5	3	5	4	0·9	...	...	89	— 2	·668	+ ·005	5·1	— 0·6	120	—14·8	109·88	109·50	+ 0·38	6·39	Dibrugarh.
105	66	100	12	14	23	20	7	21	2·4	1·8	+0·6	90	— 4	·889	— ·016	7·1	— 0·2	115	—14·1	93·66	96·27	— 2·59	4·54	Silsagar.
263	1	31	54	5	0	3	2	9	2·9	...	...	89	0	·690	+ ·011	4·9	— 0·2	96	—10·5	67·94	69·46	— 1·52	3·26	Tezpur.
336	2	18	8	2	0	0	1	3	1·1	...	...	86	— 4	·711	+ ·018	5·9	— 0·7	85	— 7·8	50·15	62·88	—12·73	3·10	Gauhati.
36	6	118	126	22	20	21	6	5	4·5	3·8	+0·7	89	— 3	·719	+ ·018	6·2	+ 1·7	100	+ 6·1	93·00	94·92	— 1·62	7·71	Dhubri.
274	5	51	30	1	1	2	3	1	2·1	1·7	—0·6	88	0	·724	—·001	5·2	+ 0·4	129	— 7·6	120·33	134·56	—14·23	8·77	Silchar.
...	...	...	...	...	...	...	...	...	...	...	...	88	+ 1	·715	—·011	3·3	...	117	— 6·7	86·12	95·88	— 9·76	3·02	Srimangal.
																								III.—Bengal.
118	11	35	56	101	37	5	0	4	2·8	...	...	87	...	·786	...	4·4	...	106	...	150·74	...	...	5·85	Cox's Bazar.
219	4	29	52	58	5	9	2	0	1·9	3·6	—1·7	90	+ 4	·773	+ ·017	4·5	— 0·2	90	— 3·6	115·91	98·23	+17·68	6·52	Chittagong.
176	38	51	9	116	55	12	1	3	2·7	...	...	86	— 1	·779	—·001	4·2	+ 0·6	110	— 2·5	121·01	120·30	+ 0·71	5·12	Noakhali.
164	18	26	14	15	84	35	7	3	1·7	2·3	—0·6	84	— 1	·762	—·019	5·2	+ 0·8	107	+ 5·7	86·38	79·72	+ 6·66	4·43	Barisal.
103	17	8	31	53	93	34	14	25	2·1	3·6	—1·5	83	— 3	·763	—·013	5·7	— 0·6	94	+ 3·0	84·75	70·45	+14·30	3·54	Narayanganj.
215	0	5	66	48	22	2	1	5	1·5	2·0	—0·5	87	0	·750	+ ·012	5·8	+ 0·8	103	— 3·4	100·11	93·04	+ 7·07	3·07	Mymensingh.
176	25	23	53	10	48	30	5	11	1·4	2·2	—0·8	86	+ 3	·734	+ ·018	4·9	+ 1·3	95	+10·8	81·04	67·90	+13·14	4·12	Bogra.
70	20	46	91	33	27	25	25	25	2·4	2·6	—0·2	84	+ 1	·706	+ ·014	8·9	— 0·5	97	+ 7·9	98·49	68·92	+29·57	7·72	Dinajpur.
302	4	2	14	20	16	3	0	1	1·5*	...	...	89	+ 3	·691	+ ·006	3·7	+ 0·4	12	+25·8	163·42	122·42	+41·00	7·27	Jalpaiguri.
15	59	59	24	15	82	84	17	10	3·5	5·9	+2·6	85	0	·821	—·010	5·0	— 0·4	83	+ 2·7	82·10	70·21	+11·89	5·07	Sangor Island.

* Mean of 11 months.

TABLE

(2) *Abstract of observations taken at 8 hrs. at 218*

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.					Temperature of air.									
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of year.	Lowest pressure of year.	Mean of 8 hrs. dry bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly range of mean hourly maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	III.—Bengal— *concld.*																
	Midnapore	149	29·670	−·027	29·770	30·104	29·100	76·5	89·7	−0·3	70·9	+0·4	30·4	+0·1	18·8	114·0	43·5
	Calcutta	21	29·811	−·019	29·779	30·231	29·247	75·1	87·7	+0·9	71·2	+0·8	29·5	+0·9	16·4	105·4	49·2
	Jessore	30	29·816	−·007	29·763	30·222	29·295	75·2	90·8	−0·7	69·9	+0·1	28·3	−0·3	16·9	103·8	48·1
	Burdwan	90	29·727	−·023	29·775	30·179	29·159	74·8	89·0	+0·2	70·2	−0·2	29·5	−0·1	18·8	115·6	42·0
	Berhampore	67	29·765	−·017	29·763	30·203	29·231	73·9	87·8	+0·1	70·3	+0·8	29·1	+0·5	17·5	115·1	47·2
	IV.—Bihar and Orissa.																
6	Balasore	50	29·793	−·007	29·739	30·212	29·239	75·6	88·9	+0·3	70·7	+0·2	29·8	+0·3	18·2	111·5	47·6
	Hukitala (False Point)	23	29·816	−·011	29·795	30·213	29·254	...	...	...	...	...	...	...	...	...	...
	Cuttack	90	29·786	−·006	29·788	30·173	29·189	76·5	90·4	−0·8	72·5	0	31·5	−0·4	17·9	110·5	56·2
	Puri	24	29·833	−·011	29·788	30·216	29·263	77·9	89·5	+0·2	75·2	+0·8	30·9	+0·5	11·2	99·8	55·3
	Angul	455	29·379	−·011	29·787	29·788	28·777	75·7	88·4*	−1·7	69·9	+0·6	28·8*	−0·5	20·1	111·9	46·0
	Sambalpur	486	29·350	−·018	29·792	29·758	28·969	75·4	90·0	−0·8	69·2	−0·7	29·6	−0·7	20·8	111·6	44·2
7	Chaibasa	733	29·076	−·022	29·773	29·491	28·501	73·3	89·1	+0·5	68·4	+1·0	29·4	−0·7	21·4	113·2	42·6
	Ranchi	3,126	27·701	−·006	29·768	28·030	27·213	71·2	83·7	−0·7	66·2	+0·7	24·9	0	17·6	107·7	41·4
	Purulia	816	29·011	−·005	29·791	29·385	28·385	74·6	90·5	+1·1	69·2	+0·9	29·9	+1·0	21·2	113·5	45·1
	Daltonganj	750	29·071	−·035	29·789	29·513	28·570	70·9	89·6	+0·2	65·8	+0·5	27·7	+0·3	23·9	113·1	36·5
8	Purnea	134	29·707	−·020	29·789	30·147	29·294	71·4	85·9	−0·8	67·1	+0·8	28·5	0	18·6	111·1	41·3
	Monghyr	155	29·655	...	29·765	30·113	29·190	74·2	89·2	...	68·9	...	28·0	...	18·3	113·6	44·3
	Darbhanga	165	29·663	−·015	29·795	30·119	29·189	73·3	86·1	+0·1	67·8	−0·8	26·7	+0·3	18·8	110·0	43·6
	Pusa	188	29·634	...	29·782	30·094	29·193	73·7	87·9	...	65·6	...	26·6	...	23·1	114·1	39·3
	Patna	183	29·639	−·015	29·790	30·099	29·149	75·5	90·2	−1·4	69·3	+0·7	27·7	−0·3	16·9	109·0	44·4
	Buxar	239	29·571	−·020	29·772	30·037	29·109	73·2	88·8	+0·1	68·3	+0·3	28·4	+0·1	20·4	113·9	38·8
	Gaya	373	29·454	−·007	29·762	29·909	28·964	76·6	89·5	−0·4	70·0	+1·3	29·8	+0·4	19·4	115·3	44·5
	Naya Dumka	469	29·338	−·008	29·786	29·757	28·799	75·4	88·8	+1·2	68·9	+0·5	29·6	+0·9	20·4	115·6	42·8
	V.—United Provinces of Agra and Oudh.																
9	Gorakhpur	257	29·553	−·016	29·773	30·002	29·136	73·6	87·3	−0·5	67·0	0	27·2	−0·3	20·3	113·3	41·8
	Benares	267	29·549	−·014	29·775	30·010	29·073	74·6	89·0	−0·6	68·9	+0·2	28·0	−0·2	23·1	115·9	37·7
	Allahabad	309	29·503	−·020	29·773	29·963	29·067	74·3	89·1	−1·1	66·5	−0·8	27·6	−0·7	23·5	116·0	36·1
	Cawnpore	416	29·402	−·005	29·784	29·940	28·934	73·1	87·9	−2·2	66·8	+0·1	27·4	−1·1	21·1	115·2	39·7
	Lucknow	368	29·444	−·013	29·777	29·896	29·002	74·6	88·6	−1·1	66·8	+1·2	27·7	+0·1	21·8	114·9	38·6
	Bahraich	407	29·394	−·018	29·773	29·841	28·968	72·3	87·6	−0·7	66·4	+0·7	27·0	0	21·3	113·5	40·2
10	Jhansi	834	28·990	−·034	29·784	29·432	28·560	73·4	90·5	−0·7	62·1	−3·42	29·8	−1·52	23·5	116·0	39·7
	Agra	556	29·259	−·015	29·782	29·700	28·777	75·9	90·2	−0·2	67·8	0	29·0	−0·1	22·4	114·8	39·5
	Mainpuri	516	29·289	−·017	29·775	29·707	28·820	72·0	89·1	−1·0	65·6	+0·1	27·3	−0·5	23·5	113·1	38·3
	Bareilly	568	29·229	−·015	29·771	29·664	28·797	71·6	87·2	−0·4	64·6	−0·1	25·9	−0·3	22·6	113·1	38·0
	Roorkee	899	28·903	−·007	29·791	29·326	28·420	68·7	85·7	−1·0	61·9	−0·5	28·9	−0·7	23·8	111·9	33·0

N. B.—Elevations in *italics* indicate barometrical determinations.

* Mean of 11 months.

B—contd.

stations in India, etc., in the year 1916.

Wind direction: Number of winds from									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.					Heaviest rainfall during year.	Station.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.		
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
																								III.—Bengal—*concld.*
127	24	31	13	15	56	33	6	31	3·5	...	...	74	− 2	·709	−·002	3·6	+0·8	63	+ 2·8	63·64	58·12	+10·52	4·65	Midnapore.
53	28	24	26	41	37	103	10	64	3·6	3·2	+0·4	64	+ 1	·763	−·008	4·6	+0·2	90	+ 4·9	62·78	61·81	+20·97	5·29	Calcutta.
202	14	10	8	42	66	16	0	6	3·6	3·2	+0·4	82	− 3	·749	−·053	4·5	−0·1	89	+ 0·2	66·23	65·79	+ 2·44	5·92	Jessore.
126	20	39	15	23	59	34	16	45	1·6	2·3	−0·7	78	0	·710	−·006	4·6	−0·1	75	− 1·8	60·77	58·00	+33·77	4·99	Burdwan.
129	15	18	33	44	66	57	7	6	2·5	2·4	+0·1	81	− 2	·712	−·022	4·0	−0·7	82	+ 6·0	60·75	55·27	+ 5·48	3·60	Berhampore.
																								IV.—Bihar and Orissa.
109	35	19	6	2	75	80	9	42	2·5	2·5	+1·0	81	0	·749	−·003	3·7	+0·6	83	+ 4·6	66·55	61·72	+ 4·83	6·23	Balasore.
15	69	16	4	18	77	98	20	60	6·9	...	...	...	...	...	...	4·9	−0·5	75	+ 3·0	75·22	63·98	+12·24	4·70	Hukitala (False Point.)
229	0	11	12	2	20	50	41	1	1·8	2·1	−0·3	80	0	·751	+·002	4·4	+0·1	81	+ 5·9	63·00	59·30	+ 3·70	3·70	Cuttack.
28	68	33	5	4	57	67	37	48	9·7	...	...	84	+ 1	·824	+·001	4·9	+1·0	61	+ 0·7	51·28	53·37	− 1·09	5·00	Puri.
219	8	20	15	36	12	8	47	108	3·2	...	...	78	− 2	·694	+·004	4·5	+1·1	80	+ 3·0	52·73	47·03	+ 4·30	2·98	Angul.
2	79	84	28	23	31	70	11	36	3·0	2·6	+0·4	73	+ 3	·642	+·004	4·7	+0·8	77	+ 2·1	70·00	66·54	+ 3·46	7·80	Sambalpur.
193	1	9	17	4	24	105	12	1	2·3	1·3	+1·0	82	− 5	·532	−·019	4·3	+0·9	62	−12·9	38·92	52·62	−13·70	3·62	Chaibasa.
56	20	12	25	27	30	44	76	74	3·7	4·6	−0·9	67	+ 1	·528	−·003	4·3	+0·5	82	+ 1·6	51·10	56·67	− 5·57	2·83	Ranchi.
115	11	15	3	36	16	21	51	101	4·9	...	...	60	− 4	·615	−·015	4·8	+1·1	80	+ 3·9	51·54	53·15	− 0·61	2·54	Purulia.
234	0	16	29	26	13	23	16	3	3·2	...	...	72	0	·577	−·011	3·7	0	65	+ 2·5	52·08	42·07	+10·01	3·13	Daltonganj.
42	12	64	98	40	12	52	26	15	2·5	2·3	+0·2	67	+ 2	·709	+·020	4·2	+0·8	63	+12·9	68·04	61·86	+28·18	8·04	Purnea.
63	3	13	80	61	11	58	53	15	5·0	...	...	74	...	·660	...	3·6	...	62	...	42·51	...	...	3·62	Monghyr.
173	1	23	124	2	1	16	96	1	3·1	2·9	+0·2	79	− 2	·658	−·006	3·4	+0·3	63	+ 3·7	52·29	50·37	+ 1·92	4·05	Darbhanga.
31	11	89	90	35	19	31	30	11	2·5	...	...	61	...	·677	...	3·9	...	66	...	56·11	...	...	4·61	Pusa. †
139	1	5	132	10	13	26	37	3	3·3‡	2·7	+0·5	71	− 1	·663	+·009	3·9	+0·4	66	+ 2·9	54·80	47·03	+ 7·77	7·97	Patna.
30	10	26	72	38	16	69	77	8	3·9	...	...	71	+ 3	·613	+·005	3·9	+0·6	57	+ 3·7	45·35	41·23	+ 4·13	3·70	Buxar.
110	8	45	26	45	20	95	10	3	2·6	2·7	−0·2	63	+ 8	·603	−·040	2·8	−1·6	72	+14·1	57·21	46·57	+10·64	4·00	Gaya.
186	15	14	28	34	31	10	9	40	2·23	...	...	71	+ 2	·646	−·005	2·4	−0·2	80	+ 2·2	72·36	55·73	+16·63	3·94	Naya Dumka.
																								V.—United Provinces of Agra and Oudh.
103	6	19	136	4	1	5	83	3	2·5	1·7	+0·8	74	− 1	·627	−·017	1·8	−1·2	68	+16·7	59·34	50·77	+ 8·57	4·13	Gorakhpur.
61	7	20	37	53	13	89	33	23	2·3	2·7	−0·4	70	− 2	·620	−·002	3·4	+0·1	57	+ 5·6	42·66	39·87	+ 2·79	3·09	Benares.
150	7	15	53	4	3	23	93	18	2·4	3·8	−1·4	65	− 1	·563	−·019	4·4	+0·9	55	+ 6·2	63·56	39·16	+23·40	6·93	Allahabad.
106	15	19	24	27	27	44	70	25	1·9	2·7	−0·8	70	− 1	·579	+·010	1·5	−1·0	64	+19·6	53·16	39·06	+14·10	5·25	Cawnpore.
223	0	3	57	13	6	12	48	5	1·2	2·2	−1·0	65	− 4	·584	+·005	3·2	0	56	+ 8·5	44·51	38·05	+ 6·46	3·60	Lucknow.
130	11	9	72	45	6	33	40	33	2·1	2·3	−0·2	69	− 6	·573	−·057	1·9	−0·8	47	− 9·3	31·15	44·82	− 3·67	3·90	Bahraich.
54	17	25	16	12	10	131	80	20	3·6	2·4	+1·2	57	− 1	·463	−·061	2·4	+0·3	50	+ 2·3	29·29	37·67	+11·32	3·39	Jhansi.
118	11	43	39	23	28	61	41	23	3·9	3·3	−0·4	54	− 6	·522	−·003	3·2	+0·5	37	− 0·9	30·16	27·81	+ 2·64	3·67	Agra.
169	21	10	37	38	19	28	64	41	2·5	1·4	+0·1	65	0	·544	−·001	3·1	−0·1	44	+ 5·9	35·05	27·42	+ 7·63	2·91	Mainpuri.
214	1	9	49	26	8	16	49	11	1·2	2·0	−0·8	85	+ 8	·617	+·042	3·8	+0·9	47	− 0·8	33·52	44·96	+17·56	6·52	Bareilly.
283	2	6	6	72	0	0	0	47	2·1	1·8	+0·3	70	− 1	·515	0	2·9	0	55	+ 7·4	63·33	42·30	+ 6·02	3·53	Bourkee.

* Wind observations for 364 days.
† Mean of 11 months.
‡ " " 346 "
§ " " 10 "

TABLE

(2) *Abstract of observations taken at 8 hrs. at 218*

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.						Temperature of air.								
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° lat.	Highest pressure of year.	Lowest pressure of year.	Mean of 8 hrs. dry bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	VI.—Punjab.																
11	Delhi	718	29·002	—·008	29·790	29·522	28·617	71·6	88·0	—0·7	67·5	0	77·7	—0·2	20·5	112·4	37·0
	Hissar	725	29·079	—·008	29·865	29·514	28·575	71·0	90·9	—0·5	62·7	—0·4	77·3	—0·5	27·2	114·4	32·2
	Patiala	818	28·970	—·025	29·775	29·395	28·473	69·4	87·0	—0·1	64·0	+0·5	75·4	+0·2	23·0	111·4	36·0
	Ambala	902	28·880	—·015	29·723	29·330	28·433	66·9	86·2	+0·6	62·6	—0·1	74·6	+0·3	23·6	113·7	32·1
	Ludhiana	812	28·987	—·006	29·789	29·409	28·484	69·1	87·8	—0·1	64·4	+0·5	76·1	+0·2	23·5	113·3	35·0
	Lahore	702	29·086	—·013	29·781	29·527	28·562	68·7	88·5	—1·2	62·9	+1·2	75·7	—0·5	25·5	111·1	34·2
	Sialkot	830	28·963	—·012	29·769	29·407	28·418	68·1	86·7	—0·8	61·1	—1·7	73·9	—1·3	25·7	113·7	32·1
	Rawalpindi	1,674	28·128	—·020	29·804	29·546	27·642	66·4	84·6	+0·5	52·9	+0·3	71·3	+0·3	26·7	112·6	30·1
23	Khushab	612	29·194	—·008	29·792	29·652	29·018	71·6	90·3	—0·4	66·7*	—0·6*	81·0*	—1·3*	24·6*	111·6	31·1
	Lyallpur	605	29·183		29·773	29·647	28·627	69·5	89·0		62·0		75·5		27·0	115·8	31·8
	Montgomery	568	29·235	—·014	29·774	29·667	28·638	71·2	90·5	+1·1	64·6	+0·4	77·5	—0·3	25·9	113·2	33·2
	Multan	426	29·264	—·021	29·763	29·680	28·760	72·4	91·8	—0·1	66·9	+1·3	79·3	+0·6	24·8	113·0	37·2
	VII.—North-West Frontier Province.																
14	Peshawar	1,118	28·698	—·030	29·618	29·151	28·161	65·9	86·2	+1·0	59·5	+0·3	72·8	+0·6	26·6	110·7	31·2
	Dera Ismail Khan	690	29·219	—·020	29·796	29·703	29·052	69·7	89·1	—0·9	53·6	+1·2	76·4	+0·1	35·5	115·8	33·5
	VIII.—Sind.																
16	Jacobabad	186	29·320	—·010	29·769	30·140	29·046	74·1	96·0	+0·4	66·5	+1·0	81·3	+0·2	29·5	120·5	30·3
	Hyderabad	96	29·718	—·029	29·768	30·168	29·189	74·1	93·7	—0·2	58·2	0	80·5	—0·3	24·5	115·9	36·3
	Karachi	13	29·855	—·012	29·800	30·255	29·324	75·1	84·6	+0·5	71·5	+0·3	78·1	+0·4	13·1	106·6	46·9
	IX.—Rajputana.																
1	Bikaner	771	29·068	—·011	29·785	29·467	28·558	73·3	92·5	+0·5	67·0	—3·2	79·8	—0·9	25·5	118·6	37·9
	Jodhpur	780	29·041	—·024	29·701	29·429	28·574	74·0	91·5	—1·1	68·2	+0·4	79·8	—0·3	23·3	113·6	34·7
18	Jaipur	1,431	28·394	—·025	29·726	28·769	27·975	73·8	90·0	—0·9	66·8	—0·9	77·4	—0·9	23·4	113·5	38·1
	Ajmer	1,611	28·221	—·027	29·809	28·596	27·803	68·9	87·1	—1·7	65·1	+0·1	76·1	—0·8	22·0	109·2	33·6
	Kotah	632	28·989	—·022	29·784	29·394	28·560	76·9	91·6	—0·2	66·9	—0·3	80·7	—0·5	24·8	115·0	42·6
	X.—Bombay.																
19	Deesa	466	29·386	—·017	29·811	29·233	28·261	75·3	95·2	+1·3	67·8	+0·6	81·4	+0·7	27·3	119·0	36·6
	Bhuj	334	29·509	—·026	29·798	29·380	28·070	75·9	90·7	—0·5	67·0	—1·6	78·9	—1·1	23·7	113·0	36·1
	Jamnagar	61	29·798	—·032	29·805	30·148	29·374	76·3	88·9	—0·7	67·9	—0·4	78·4	—0·5	20·9	109·9	38·9
	Dwarka	37	29·839	—·031	29·812	30·164	29·413	77·0	85·1	+1·0	73·4	+0·9	79·2	+0·9	11·6	98·8	48·4
	Rajkot	499	29·420	—·033	29·803	29·735	29·038	74·8	92·3	—0·7	66·2	+0·3	79·3	—0·3	26·1	113·3	36·9
	Veraval	18	29·843	—·032	29·804	30·140	29·476	76·1	84·4	—0·5	73·2	+1·2	78·8	+0·3	11·2	99·7	46·5
	Bhavnagar Para	55	29·803	—·034	29·805	30·134	29·414	76·6	89·6	0	69·3	0	81·4	0	24·3	113·8	39·2
	Surat	39	29·837	—·031	29·809	30·147	29·453	76·9	91·0	—0·6	70·6	+0·9	80·8	+0·1	20·3	108·1	45·7
	Ahmadabad	163	29·704	—·018	29·818	30·052	29·294	77·8	95·1	+0·2	70·3	+0·3	82·6	+0·5	24·3	117·3	42·8
25	Bombay	37	29·841	—·033	29·818	30·106	29·520	78·1	86·1	+0·2	75·7	+0·7	80·9	+0·4	10·4	94·1	59·2
	Satsagiri	207	29·667	—·034	29·815	29·904	29·358	76·9	85·7	—1·6	73·7	+0·6	79·7	—0·5	12·0	99·3	61·3

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 9 months.

B.—contd.

stations in India, etc., in the year 1916.

Wind direction. Number of winds from									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.					Station.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
																								VI.—Punjab.
58	17	35	26	52	5	10	90	61	3·3	3·5	+0·5	58	−1	·490	−·005	2·6	−0·6	40	+2·9	29·43	27·52	+ 1·91	2·82	Delhi.
53	29	7	38	52	38	76	52	21	4·1	3·5	+0·6	56	−4	·465	−·025	3·1	+0·5	25	+1·8	21·88	13·88	+ 8·00	3·25	Hissar.
61	44	16	33	39	15	11	37	60	4·0			69	+2	·538	+·004	2·5	−0·2	39	+2·5	27·48	25·46	+2·02	2·81	Patiala.
104	71	7	55	42	5	4	15	33	2·0	1·5	+1·5	68	−4	·508	−·029	3·1	+0·3	48	+5·7	39·81	30·19	+ 9·62	5·35	Ambala.
287	8	9	1	25	13	5	6	13	1·4	1·4	0	63	−2	·484	−·020	1·5	−1·5	24	−2·7	29·41	29·05	+ 0·36	3·53	Ludhiana.
194	23	28	14	50	18	7	12	21	1·5	1·8	−0·3	69	+2	·523	+·011	3·0	+0·4	30	+2·3	24·84	19·69	+ 5·15	7·66	Lahore.
148	38	41	71	23	4	5	13	23	1·7	1·5	+0·2	71	+5	·526	+·019	2·7	+0·4	41	+0·6	32·55	31·66	+ 0·89	4·98	Sialkot.
138	20	32	29	40	19	21	46	31	2·5	1·8	+0·5	63	−2	·451	+·005	4·1	+0·9	51	+3·0	49·87	34·29	+15·58	4·27	Rawalpindi.
132	19	91	78	10	9	13	9	5	5·9	3·6	+2·3	52	−3	·458	+·003	3·1	+1·0	22	−1·2	14·08	14·44	+ 0·24	2·55	Khushab.
127	6	51	21	57	24	37	8	35	1·8			54		·496		2·9		21	+1·5	10·61	12·66	− 2·05	2·53	Lyallpur.
53	40	49	39	44	57	38	20	34	4·1	4·3	−0·2	58	+0	·495	+·045	2·1	0	15	−3·2	10·49	10·46	+ 0·03	2·45	Montgomery.
106	65	23	4	23	24	18	2	9	1·2	1·5	−0·3	61	+2	·540	+·037	1·6	0	12	−0·2	6·25	6·73	− 0·48	0·93	Multan. (a)
																								VII.—North-West Frontier Province.
277	25	3	0	5	34	12	3	7	1·0	3·6	−1·4	57	+4	·478	+·025	3·1	+0·1	35	+9·2	19·70	13·29	+ 6·41	3·18	Peshawar.
223	38	40	9	13	2	6	8	29	1·4	1·3	+0·1	63	−2	·509	−·013	2·7	+0·7	13	−3·5	8·65	9·37	− 0·72	2·02	Dera Ismail Khan.
																								VIII.—Sind.
212	15	3	36	60	9	7	1	23	3·1	2·5	−0·4	60	+2	·575	+·042	1·7	−0·1	7	−0·6	3·60	3·65	+ 0·15	0·94	Jacobabad.
47	94	5	1	10	72	115	14	8	6·8	8·1	−2·3	61	+3	·551	+·016	1·5	−0·8	16	+6·4	14·01	7·11	+ 6·90	1·91	Hyderabad.
19	41	71	13	3	3	42	133	45	9·4	9·2	+0·2	71	−2	·668	−·009	3·6	+0·3	16	+6·8	21·67	7·76	+14·09	5·65	Karachi.
																								II.—Rajputana.
111	5	12	27	38	49	71	35	16	3·0	3·3	−0·5	54	+1	·507	+·007	1·6	−0·6	26	+6·6	21·10	11·49	+ 9·61	3·72	Bikaner.
62	21	94	18	3	20	120	24	4	3·8			46	−3	·434	−·017	3·4	+0·3	26	+7·5	25·96	13·34	+12·62	6·69	Jodhpur.
103	35	37	34	12	3	17	59	63	3·5	3·2	+0·3	53	−3	·455	−·025	2·8	−0·3	42	+6·5	23·63	24·07	− 0·39	3·00	Jaipur.
218	3	10	6	2	7	47	50	33	3·1	3·6	−0·5	59	−4	·447	−·059	3·5	+0·7	33	+7·9	29·30	21·09	+ 7·21	3·20	Ajmer.
129	14	24	2	13	5	58	46	75	3·7			51	+1	·485	+·014	2·8	+0·6	45	+10·0	44·08	28·14	+15·94	5·36	Kotah.
																								K.—Bombay.
26	11	70	66	19	19	78	33	59	6·9	7·5	−0·7	59	+ 3	·564	+·041	3·7	+0·5	35	+6·7	25·42	24·10	+ 1·34	3·78	Deesa.
107	27	6	10	2	3	13	190	8	6·2	8·1	−1·8	63	− 4	·597	−·034	2·9	−0·1	24	+7·1	14·04	14·15	− 0·11	2·30	Bhuj.
77	6	35	31	10	20	87	72	28	7·8			74	+ 7	·711	+·069?	3·4	+1·3	38	+7·2	25·02	19·28	+ 5·64	3·63	Jamnagar.
11	51	65	16	2	7	50	80	45	9·2			75	− 2	·723	−·026	3·2	+0·6	25	+5·1	11·10	14·38	− 3·28	1·42	Dwarka.
37	25	36	29	12	23	97	67	41	9·0	6·6	+1·4	64	− 2	·589	−·020	4·5	+1·6	42	+11·1	28·55	26·54	+ 2·31	2·11	Rajkot.
31	90	50	4	4	7	42	62	55	8·0	6·1	+1·9	72	+ 1	·680	+·011	3·4	−0·1	35	+10·8	23·65	17·65	+ 5·00	3·76	Veraval.
26	32	14	9	3	5	65	69	123	6·5	7·3	−0·8	72	+ 0	·700	+·007?	3·9	+0·7	29	−0·8	19·66	20·68	− 1·10	3·79	Bhavnagar Para.
101	44	44	35	27	45	41	17	20	3·2	5·5	−2·3	69	− 1	·668	−·004	4·2	+0·9	63	+16·9	57·38	41·12	+16·26	4·15	Surat.(b)
45	10	85	20	10	13	68	16	33	4·2	3·6	+0·6	55	− 2	·536	−·005	3·3	−0·2	36	+1·9	25·24	29·62	− 4·38	3·14	Ahmadabad.
3	31	72	33	52	23	35	52	25	6·5	8·6	−2·1	78	0	·769	+·021	4·8	+0·5	91	+17·7	85·96	71·68	+14·08	6·52	Bombay.
12	67	43	49	79	40	54	33	10	6·8	6·2	+0·6	73	0	·724	+·002	4·4	+0·5	121	+28·9	152·74	101·22	+51·52	6·94	Ratnagiri.

(a) Wind observations for 364 days.
(b) " " " 362 "

TABLE

(2) *Abstract of observations taken at 8 hrs. at 218*

Number of sub-division.	Station.	Height of bar-etotm above sea-level in feet.	Pressure, 8 hrs., in inches.					Temperature of air.									
			Mean 8 hr. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of year.	Lowest pressure of year.	Mean of 8 hrs. dry bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	X.—Bombay—*concld.*																
	Marmagao	60	29·826	−·037	29·821	30·059	29·559	77·6	84·9	−1·0	74·4	−0·6	79·7	−0·8	10·6	94·4	64·0
	Karwar	44	29·861	−·019	29·840	30·068	29·612	76·8	85·4	−0·2	72·8	+0·1	79·1	−0·3	12·6	88·8	59·1
25	Malegaon	1,480	29·435	−·022	29·813	29·757	29·074	75·5	93·5	+1·7	66·3	+1·2	79·9	+1·4	27·2	115·6	43·3
	Ahmadnagar	2,164	27·731	−·030	29·807	29·056	27·216	73·5	89·6	−0·8	64·7	+0·2	76·9	0	25·0	109·1	44·7
	Poona	1,846	28·041	−·022	29·838	29·339	27·743	73·1	89·0	−0·5	65·5	+0·9	77·3	+0·2	23·5	107·5	45·1
	Sholapur	1,580	28·273	−·036	29·861	29·547	27·966	75·7	91·3	−1·6	68·5	+0·4	79·9	−0·6	23·8	108·2	49·0
	Bijapur	1,948	27·920	−·029	29·804	29·183	27·667	74·6	89·9	+2·1	69·1	+0·5	79·5	−0·8	20·8	104·5	47·8
	Belgaum	2,502	27·350	−·018	29·637	27·619	27·086	70·9	83·3	−0·7	63·7	−0·3	73·7	−0·5	20·1	101·3	46·9
	XI.—Central India.																
20	Neemuch	1,630	28·223	−·023	29·803	29·370	27·921	76·0	93·2	−0·6	64·9	+0·4	76·6	−0·1	23·4	113·9	30·3
	Indore	1,823	28·028	−·027	29·803	29·254	27·630	73·9	93·3	+0·2	64·5	+1·1	76·6	+0·7	23·6	114·0	30·1
21	Nowgong	754	29·061	−·023	29·786	29·480	28·651	71·3	88·1	−1·3	64·9	−0·8	76·5	−1·1	23·2	115·9	37·0
	Sutna	1,041	28·769	−·017	29·780	29·175	28·354	72·3	90·6	−1·6	67·0	+1·1	78·8	−0·3	19·6	113·8	36·0
	XII.—Central Provinces.																
22	Buldana	2,13a						74·4	87·3	−0·4	68·5	+0·6	77·9	+0·1	18·7	109·9	47·5
	Akola	925	28·919	−·030	29·799	29·260	28·564	76·5	92·8	−0·2	68·5	+1·3	80·7	+0·5	24·2	117·2	44·8
	Amraoti	1,216	28·627	−·026	29·794	28·972	28·263	76·7	91·3	−0·8	70·3	+1·3	80·8	+0·3	21·0	115·0	47·7
23	Khandwa	1,034	28·801	−·025	29·809	29·158	28·433	73·2	91·3	−0·7	67·7	+0·7	79·4	0	23·6	116·8	35·1
	Hoshangabad	1,006	28·845	−·014	29·813	29·231	28·444	74·4	89·2	−1·2	67·1	+0·2	78·2	−0·5	22·2	115·5	39·6
	Saugor	1,807	28·032	−·031	29·789	28·391	27·630	73·1	87·3	−0·6	67·0	+0·5	77·1	−0·1	20·3	113·4	41·4
	Jabbulpore	1,327	28·490	−·026	29·788	28·873	28·032	71·9	87·4	−1·1	65·5	+1·1	76·4	0	21·9	112·8	36·3
	Seoni	2,033	27·818	−·013	29·791	28·165	27·308	73·6	86·0	−1·9	64·0	−0·7	75·0	−1·3	22·0	109·7	39·5
	Nagpur	1,017	28·818	−·022	29·790	29·188	28·388	76·0	91·0	−1·1	69·0	+0·3	80·0	−0·5	22·0	113·6	44·3
24	Pendra	2,040	27·901	−·006	29·787	28·156	27·204	72·6	85·3	−0·2	65·7	+0·6	75·5	+0·2	19·7	110·8	39·2
	Raipur	970	28·852	−·026	29·778	29·227	28·345	75·0	90·0	−0·3	70·0	+0·9	79·9	+0·2	20·0	113·2	45·6
	Chanda	634	29·203	−·037	29·787	29·529	28·827	77·1	92·2	−0·6	69·5	+0·9	80·9	+0·1	22·8	114·1	42·6
	Jagdalpur	1,813	28·035		29·791	28·344	27·849	72·6	88·1		65·6		76·9		22·5	108·4	42·1
	XIII.—Hyderabad.																
27	Aurangabad	1,905	27·972	−·033	29·807	28·254	27·655	75·6	89·5	−1·3	67·3	−1·6	78·4	−1·5	22·2	110·2	42·2
	Nizamabad	1,248	28·604	?	29·796	28·917	28·287	76·9	91·9	+0·3	69·4	+1·0	80·6	+0·7	22·4	111·2	49·2
	Bidar	2,166						76·1	87·8	−0·7	68·8	+1·0	78·3	+0·1	19·0	106·4	53·4
28	Gulbarga	1,503	28·363	−·032	29·800	28·648	28·067	74·9	92·3	+0·3	69·1	+0·1	80·7	−0·1	23·2	111·2	48·8
	Raichur	1,311	28·567	−·006	29·818	28·837	28·274	77·8	91·7	−0·6	72·5	+0·8	82·1	+0·1	19·2	106·8	55·6
	Hyderabad (Deccan)	1,738	28·141	−·030	29·804	28·411	27·915	75·2	89·1	−1·4	70·1	+0·6	79·6	−0·4	19·0	107·3	49·5
	Hanamkonda	877	28·991	−·016	29·805	29·315	28·686	73·2	91·2	−0·6	72·5	+0·7	81·8	+0·1	18·7	103·0	53·2

N. B.—Elevations in italics indicate barometrical determinations.

B—contd.

stations in India, etc., in the year 1916.

Wind direction.. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Wind velocity. Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Hygrometry, 8 hrs. Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Cloud. Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Rainfall. Number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	Station.
19	20	21	22	23	24	25	26	27.	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
																								X.—Bombay—*contd.*
16	41	46	84	31	27	15	62	41	6·5	6·7	—0·2	57	+ 4	·829	+ ·016	5·8	+1·5	118	+23·7	124·23	99·85	+30·38	5·52	Marmagao. (a)
270	25	7	1	2	20	20	0	21	1·9	3·0	—1·1	68	+ 5	·783	+ ·036	4·4	+0·6	127	+23·3	145·23	122·45	+22·77	4·02	Karwar.
103	10	49	4	3	17	149	36	33	4·3	6·5	—1·7	69	+ 1	·529	+ ·013	3·7	+0·7	49	+14·0	28·51	22·71	+ 5·80	2·22	Malegaon.
45	41	9	5	25	21	36	33	101	4·6	8·3	—3·7	59	— 3	·587	—·038	3·1	+0·1	40	+13·2	33·55	23·29	+10·26	5·18	Ahmadnagar.
0	1	0	34	2	1	146	108	14	6·9	7·6	—0·8	73	+10?	·583	+ ·060?	2·2	—1·5	64	+17·2	33·85	27·23	+ 6·62	3·15	Poona.
34	21	33	21	59	10	51	52	85	6·5	7·1	—0·6	60	+ 5	·531	+ ·035	4·5	+0·6	66	+23·9	46·80	29·50	+19·30	3·05	Sholapur. (a)
45	36	11	16	35	31	56	78	58	4·5	4·7	—0·2	62	— 5	·526	—·053	3·3	—0·4	56	+19·5	39·03	20·93	+18·10	3·65	Bijapur.
188	1	17	42	2	5	50	53	3	8·3	11·0	—2·7	76	+ 6	·589	+ ·032	4·6	+0·2	85	+ 4·0	54·87	49·67	+ 5·20	2·66	Belgaum.
																								XI.—Central India.
67	34	6	95	2	11	22	117	11	5·5	6·4	—0·9	57	— 1	·488	—·011	3·6	+0·8	43	+ 7·6	38·96	28·67	+10·29	4·62	Neemuch. (a)
91	24	36	27	16	5	10	103	58	4·5	3·0	+1·5	63	+ 1	·525	+ ·002	4·1	+0·5	62	+17·1	43·29	32·79	+10·50	4·62	Indore.
98	81	12	45	15	50	23	88	11	1·9	1·9	0	67	+ 2	·535	—·004	4·0	+0·3	57	+ 6·7	45·50	43·35	+ 2·15	5·99	Nowgong.
101	24	11	39	15	50	60	69	7	2·9	4·4	—1·5	65	+ 4	·541	+ ·025	3·4	—0·3	57	+ 2·1	55·43	44·44	+10·99	8·84	Sutna.
																								XII.—Central Provinces.
10	4	17	43	34	12	33	117	103	4·7	5·7	—1·0	60		·508		4·1		67	+14·7	49·43	35·05	+14·38	2·99	Buldana.
58	6	24	36	21	9	36	102	75	4·3	3·4	—0·1	57	0	·521	+ ·011	5·0	+1·4	62	+15·8	45·05	38·70	+12·35	3·03	Akola.
92	9	60	39	14	5	31	59	39	4·0	4·2	+0·4	56	— 2	·509	—·020	4·1	+0·6	63	+15·2	48·70	33·84	+14·86	3·68	Amraoti. (b)
170	2	23	17	7	8	5	78	51	4·3	4·4	+0·5	63	+ 5	·531	+ ·027	3·1	0	56	+14·0	39·68	20·91	+ 3·77	3·15	Khandwa.
96	0	63	27	11	1	130	6	9	2·1	2·3	—0·2	69	— 2	·531	—·010	3·3	—0·1	72	+16·4	61·88	49·10	+12·78	4·12	Hoshangabad.
82	16	31	36	49	25	33	100	84	5·1	3·2	+1·9	54	— 2	·443	—·030	3·7	+0·6	65	+ 8·7	45·39	46·25	—·86	3·45	Sangor.
44	22	19	27	95	47	53	45	16	2·0	2·2	—0·3	64	— 3	·511	—·013	3·8	+0·5	73	+ 8·9	57·72	55·51	+ 2·21	4·80	Jubbulpore.
113	53	33	10	13	26	35	43	36	3·0	2·7	+0·3	60	— 3	·498	—·014	3·9	+0·7	78	+ 7·6	50·66	52·68	+ 2·02	5·26	Seoni.
34	90	38	23	18	6	30	54	47	4·0	4·1	—0·1	60	+ 1	·539	+ ·004	4·2	+0·4	81	+18·1	61·72	49·16	+12·56	3·75	Nagpur.
154	37	14	4	26	47	24	10	49	2·4			66	+ 3	·505	+ ·025	3·0	—0·4	81	+ 6·6	56·62	51·50	+ 5·12	2·85	Pendra. (a)
39	20	60	46	14	35	81	69	32	3·8	4·3	—0·5	67	+ 4	·528	+ ·028	3·3	—0·5	55	— 8·5	40·19	49·09	— 9·90	5·56	Raipur.
114	16	22	46	30	20	62	56	30	3·6	2·7	+0·9	67	+ 3	·616	+ ·030	4·0	+0·4	73	+ 9·3	57·06	53·43	+ 3·63	3·50	Chanda.
30	42	13	33	16	75	72	73	12	3·0			77		·619		4·8		87		46·17			2·46	Jagdalpur.
																								XIII.—Hyderabad.
37	26	36	52	36	9	38	99	34	7·1			58	+ 4	·513	+ ·027	4·7	+1·4	64	+19·7	46·13	29·37	+17·76	5·50	Aurangabad.
91	31	27	10	24	34	62	62	35	3·1			63	— 3	·566	—·050	4·2	+0·8	67	+13·1	39·13	40·87	— 1·74	2·15	Nizamabad.
32	10	36	27	33	19	128	35	47	5·3			64	— 3	·553	—·035	4·8	+2·1	73	+19·3	50·65	37·45	+13·10	3·40	Bidar. (a)
49	20	42	59	17	17	49	66	28	4·6	7·4	—2·8	64	0	·553	—·027	3·6	0	68	+19·6	43·83	33·14	+10·69	3·13	Gulbarga.
1	9	32	67	65	23	97	54	58	6·0	7·1	—1·3	71	+ 8	·675	+ ·078	3·0	—0·5	64	+19·3	48·97	26·62	+22·35	6·25	Raichur.
125	3	12	19	19	7	65	80	66	3·9	4·0	—0·1	75	+ 7	·654	+ ·066	4·8	+0·9	69	+19·6	56·10	31·32	+24·78	4·30	Hyderabad (Deccan).
24	53	7	3	93	109	29	39	46	4·5			69	+ 3	·665	+ ·036	4·4	+0·2	67	+16·5	49·10	24·75	+18·35	3·65	Hanamkonda.

(a) Wind observations for 365 days.
(b) " " 357 "

TABLE

(2) *Abstract of observations taken at 8 hrs. at 218*

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches.					Temperature of air.									
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and constant gravity at 45° Lat.	Highest pressure of year.	Lowest pressure of year.	Mean of 8 hrs. dry bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	XIV.—Mysore.																
29	Chitaldrug	2,405	27·503	−·019	29·817	27·751	27·265	73·2	87·0	0	67·9	+0·5	77·4	+0·3	19·1	101·0	54·9
	Hassan	3,149	26·811	−·016	29·885	27·021	26·605	69·2	83·7	−0·6	63·8	+0·9	72·9	+0·1	19·4	97·7	50·6
	Bangalore	3,021	26·931	−·023	29·830	27·148	26·719	69·9	84·4	−0·1	64·4	+0·3	74·4	+0·1	20·0	98·0	51·2
	Mysore	2,518	27·413	−·026	29·834	27·617	27·207	72·0	85·0	−1·4	65·7	−0·1	75·3	−0·8	19·3	98·0	53·5
	XV.—Madras.																
30	Mangalore	72	29·839	−·031	29·843	30·038	29·614	78·9	87·0	−0·4	74·1	+0·6	80·5	+0·1	12·9	96·6	64·3
	Calicut	27	29·883	−·025	29·889	30·056	29·650	77·9	85·4	−1·3	74·5	+0·2	80·0	−0·5	11·0	93·4	63·8
	Cochin	9	29·906	−·026	29·843	30·066	29·705	79·1	87·3	0	74·8	−0·1	81·2	−0·1	13·0	94·8	67·5
	Trivandrum	198	29·715	−·017	29·844	29·874	29·505	78·3	85·3	+1·5	74·2	−1·0	79·9	+0·3	11·2	92·4	65·3
31	Pamban	37	29·853	−·027	29·818	30·066	29·651	81·4	87·4	−0·4	76·4	+1·0	82·9	+0·3	9·0	94·2	72·5
	Madura	447	29·443	−·026	29·822	29·589	29·225	80·7	93·5	−1·3	75·2	+0·6*	83·9*	−0·3*	17·3*	103·6	66·0
	Pudukkottai	318	29·584	−·016	29·834	29·797	29·364	79·6	93·9	−0·3	73·9	−0·1	83·5	−0·1	19·3	102·0	63·1
	Negapatam	31	29·861	−·019	29·831	30·097	29·644	81·3	90·3	+0·3	76·0	−0·2	83·2	0	14·3	103·1	65·8
	Trichinopoly	256	29·644	−·019	29·833	29·897	29·426	80·5	93·9	−0·4	74·1	−0·1	84·0	−0·3	19·9	106·5	61·6
	Coimbatore	1,341	28·571	−·010	29·850	29·822	28·366	75·7	89·2	−0·8	69·6	−0·1	79·4	−0·5	19·6	102·2	55·7
	Salem	913	28·930	−·011	29·889	29·241	28·778	77·8	92·5	−0·6	71·4	+0·4	82·0	−0·1	21·2	106·4	57·8
	Cuddalore	37	29·850	−·022	29·817	30·120	29·610	79·9	89·9	−0·7	74·7	+0·2	82·3	−0·3	15·1	103·3	63·4
	Vellore†	707	29·173	−·030	29·830	29·465	28·942	77·9	93·6	+1·2	71·8	−0·7	82·3	+0·3	20·8	107·7	55·4
	Madras (†)	22	29·860	−·025	29·814	30·146	29·589	80·9	91·1	+0·1	75·0	+0·2	83·0	+0·1	16·1	104·7	62·6
32	Cuddapah	459	29·444	−·032	29·831	29·733	29·171	80·8	95·1	−0·7	75·3	+0·3	85·2	+0·1	19·8	111·6	57·7
	Bellary	1,476	28·401	−·029	29·810	29·639	28·146	77·9	93·5	−0·9	71·0	+0·5	81·8	−0·3	22·5	107·3	53·2
	Kurnool	923	28·969	−·010	29·825	29·238	28·682	77·1	92·6	−1·3	71·9	+1·1	82·2	−0·1	20·8	109·5	50·1
33	Nellore	66	29·900	−·029	29·801	30·110	29·504	80·0	92·3	−1·7	75·9	−0·1	83·6	−0·3	17·3	108·6	62·1
	Masulipatam	15	29·956	−·025	29·806	30·177	29·505	79·6	89·1	−1·4	74·3	−0·2	81·7	−0·8	14·8	107·4	59·4
	Cocanada	26	29·948	−·011	29·811	30·180	29·472	79·3	89·0	−0·5	74·7	−0·3	81·8	−0·4	14·3	105·8	59·5
	Waltair, (Vizagapatam.)	226	29·633	−·016	29·796	29·994	29·164	76·3	87·1	+0·1	74·8	−0·6	80·9	−0·3	12·3	99·8	60·3
	Calingapatam	19	29·931		29·788	30·195	29·355	78·5	88·8		74·1		81·4		14·7	102·0	63·9
	Gopalpur	33	29·907	−·014	29·781	30·200	29·376	77·5	86·5	+0·5	74·5	+1·4	80·5	+0·9	11·9	99·5	54·9
	Bay Islands.																
1	P. V. Fraser	8	29·927		29·780	30·197	29·170	80·5									
	Port Blair	68	29·830	−·024	29·818	30·044	29·582	80·5	86·7	−0·5	76·4	−0·6	81·5	−0·5	10·3	95·2	68·9
	Table Island (§)		29·789	−·023	29·815	29·934	29·571	80·2	83·8	−0·9	76·8	−0·2	80·4	−0·5	7·0	88·1	64·6
	Kashmir.																
13	Muzaffarabad		27·465			27·893	27·009	61·8	80·6		56·5		68·4		23·9	103·0	31·9
	Srinagar	5,204	24·865	−·022	24·836	25·185	24·402	50·6	67·9	+1·9	46·3	+1·5	56·6	+1·5	23·7	94·7	15·9
	Gulmarg‡	8,699	21·762	−·027	21·750	21·913	21·630	61·6	68·6	+1·9	48·9	+2·0	58·8	+1·9	19·7	81·9	37·3
	Dras	10,059	20·793	−·002	20·761	21·094	20·681	31·8	49·7	−1·3	24·2	+2·9	36·9	+0·8	25·5	79·7	−28·9

N. B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 10 months.
† „ „ 11 „
(§) „ „ 5 „
‡ „ „ 4 „

B.—contd.

stations in India, etc., in the year 1916.

Wind direction. Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Wind velocity. Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Hygrometry, 8 hrs. Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Cloud. Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Rainfall. Number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	Station.
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
																								XIV.—Mysore.
33	5	3	40	44	8	93	113	25	5·4	5·9	−0·5	71	+1	·579	−·001	4·8	0	46	− 2·3	27·17	25·34	+1·83	2·76	Chitaldrug.
78	6	5	55	32	2	55	102	30	5·3	2·6	+2·7	80	+3	·576	−·009	4·9	−0·7	62	+15·3	43·46	35·61	+7·85	2·41	Hassan. (a)
5	3	32	56	33	25	65	123	28	6·4	4·6	+1·8	79	+1	·551	0	5·6	+0·5	71	+11·8	53·09	35·51	+17·58	6·51	Bangalore.
48	9	46	24	12	10	93	90	29	6·7	7·3	−1·6	77	0	·607	−·001	4·7	−1·2	64	+ 8·4	43·41	31·30	+12·11	3·34	Mysore.
																								XV.—Madras.
16	42	50	150	39	14	8	38	19	4·9	2·1	+2·8	79	+2	·719	+·005	5·2	0	127	+10·6	122·41	127·06	−4·67	4·09	Mangalore.
129	16	36	68	17	7	8	20	63	6·2	6·3	−·1	87	+4	·828	+·030	5·4	+0·5	118	+4·0	115·50	117·00	−1·50	3·83	Calicut.
33	5	69	171	48	8	9	15	12	5·1	4·0	+1·1	79	−2	·788	−·021	4·5	−0·4	130	+1·5	120·28	113·83	+6·45	6·55	Cochin.
63	76	62	22	4	1	0	17	121	4·6	4·4	+0·2	89	−3	·770	−·030	6·1	+0·6	99	+5·0	62·96	63·33	−0·37	4·30	Trivandrum.
75	45	46	14	33	77	67	10	19	7·4	7·5	−0·1	81	+1	·563	−·017	3·6	+0·1	46	−0·3	38·07	37·19	+0·12	5·15	Pambau.
3	63	59	37	8	7	10	70	104	4·4	3·1	+1·3	71	0	·743	−·006	5·3	+2·0	37	−12·0	26·10	34·30	−8·20	1·93	Madura.
81	86	53	5	4	9	26	42	60	3·2	...	...	73	−2	·733	−·023	4·3	−1·6	50	−4·6	36·90	33·70	+3·20	2·58	Pudukkottai.
6	4	57	9	34	8	55	126	66	7·6	5·0	+2·6	83	+7	·969	+ ·0617	5·6	+0·5	46	−9·8	36·67	53·56	−16·89	6·45	Negapatam.
29	40	40	4	6	19	83	90	47	4·0	4·2	−0·2	71	−1	·731	−·011	4·0	−0·6	40	−6·1	29·17	33·86	−4·69	3·73	Trichinopoly.
113	26	69	15	8	37	80	18	1	3·6	3·1	+0·5	78	−5	·695	−·037	3·5	−1·4	49	+4·0	27·59	23·10	+5·49	2·34	Coimbatore.
169	1	16	35	4	34	8	99	0	3·4	(a) 3·1	+0·3	78	+1	·744	−·001	4·3	−0·2	60	−4·4	45·51	40·20	+5·31	6·53	Salem.
66	21	6	1	5	24	128	41	74	3·6	1·8	+2·0	76	−3	·720	−·047	4·0	+0·6	53	−6·2	50·91	50·69	+0·09	7·03	Cuddalore.
264	1	0	3	9	1	5	99	23	5·1	...	...	79	+4	·751	+·033	3·7	−0·2	63	+5·3	54·44	41·81	+12·63	4·38	Vellore.
18	17	5	4	6	31	125	73	53	4·6	5·9	−0·5	78	+1	·813	+·001	4·0	−0·9	60	+2·1	45·33	40·42	−3·14	3·53	Madras.
27	43	11	36	60	24	18	53	96	...	...	...	68	+1	·710	+·001	3·6	−0·7	64	+18·0	43·06	31·63	+11·43	2·60	Chiddapah.
60	15	13	31	34	25	39	88	61	4·5	4·8	−0·3	66	+5	·622	+·053	4·1	−0·5	45	+9·5	27·63	19·98	+7·64	2·34	Bellary.
100	4	13	25	33	16	64	75	48	4·8	...	...	66	0	·639	0	4·3	+0·5	58	+10·5	41·33	26·92	+14·41	5·76	Kurnool.
78	27	28	8	7	75	43	53	53	3·6	4·8	−1·4	76	+2	·720	−·001	4·8	−1·0	53	+11·0	37·41	34·97	+2·44	3·26	Vellore.
96	63	44	6	21	37	46	56	43	3·2	2·7	+0·5	81	−1	·831	−·026	5·8	−0·9	74	+20·9	66·14	40·00	+26·14	3·75	Masulipatam.
61	55	51	6	5	7	66	77	66	5·7	5·8	−0·1	81	+6	·826	+·036	5·2	+0·6	76	+23·1	49·94	36·36	+10·98	6·08	Cocanada.
66	17	43	17	7	26	126	68	7	4·6	...	...	76	+6	·789	+·036	4·2	−0·8	56	+6·0	39·87	37·26	+2·61	2·75	Waltair (Vizagapatam).
79	38	14	3	3	19	64	83	65	5·9	...	...	81	...	·811	...	2·8	...	54	+5·8	34·29	36·49	−2·21	5·09	Calingapatam.
6	96	9	4	8	47	79	5	93	8·0	8·6	−0·6	81	0	·739	+·005	3·4	+1·0	50	−7·0	42·25	44·87	−2·62	6·96	Gopalpur.
																								Bay Islands.
21	45	40	15	21	48	133	30	13	...	...	...	80	...	·847	...	4·5	...	66	...	41·98	...	...	5·43	P. V. Fraser.
83	46	53	27	13	33	34	35	49	5·0	5·5	−0·5	81	−4	·843	−·046	5·4	−0·6	132	−9·0	115·69	118·49	−2·80	4·70	Port Blair.
2	10	29	18	13	28	19	15	2	...	...	...	85	+1	·877	−·002	6·4	−1·0	45	−6·7	21·63	29·50	−7·49	1·94	Table Island.
																								Kashmir.
300	8	6	1	2	16	23	2	2	1·0	...	...	69	...	·409	...	3·3	...	79	...	57·73	...	...	5·45	Muzaffarabad.
139	18	10	7	71	44	16	26	38	2·4	2·6	−0·2	77	−9	·339	−·010	4·2	−0·3	63	−6·7	17·03	27·34	−9·31	0·99	Srinagar.
41	16	38	13	6	0	1	1	6	2·7	...	...	74	−5	·397	+·001	5·0	+1·1	33	−6·1	14·22	16·33	−2·13	1·30	Gulmarg.
303	4	0	0	1	2	13	27	10	3·5	...	...	60*	−2†	·245*	−·017†	3·9	−0·2	46	−11·2	16·10	21·76	−5·63	0·82	Dras.

(a) Wind observations for 365 days.

* Mean of 7 months.
† " " 5 "
(a) " " 11 "

TABLE

(2) *Abstract of observations taken at 8 hrs. at 218*

Number of sub-division.	Station.	Height of bar-eletern above sea-level in feet.	Pressure, 8 hrs., in inches.					Temperature of air.									
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and constant gravity at 45° Lat.	Highest pressure of year.	Lowest pressure of year.	Mean of 8 hrs., dry-bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	Kashmir—*contd.*																
	Leh	*11,503*	19·700	—·004	19·008	19·945	19·289	39·2	57·1	+1·7	30·7	+1·1	43·9	+1·4	26·4	64·4	1·4
	Skardu	7,606	22·850	—·026	23·820	23·249	22·499	46·4	65·3	+3·0	43·2	+3·8	54·2	+2·9	22·0	99·3	12·8
	Gilgit	4,890	25·108	—·021	25·081	25·571	24·668	59·7	74·7	+2·1	53·8	+0·3	63·7	+1·1	21·9	104·7	25·7
	Baluchistan.																
15	Fort Sandeman	4,614	25·357	...	25·336	25·655	25·010	58·6	80·5	...	52·9	...	66·7	...	27·7	110·2	14·5
	Quetta	5,502	24·611	—·017	24·571	24·897	24·298	49·0	73·6	+0·2	42·9	—1·4	58·3	—0·6	30·9	98·7	11·7
	Chaman	5,311	25·644	—·031	25·606	25·963	25·288	50·6	77·2	+0·3	53·9	—0·9	65·1	—0·6	24·4	104·9	20·0
	Kalat	6,630	23·717	...	23·679	23·963	23·437	45·7	71·5	—2·2	40·0	+4·3*	55·8	+1·1*	31·5	97·0	8·7
	Dalbandin	2,272	27·079	...	27·042	27·455	26·701	60·4	85·5	...	52·5	...	69·0	...	33·0	113·6	16·8
	Pasni	...	29·342	...	29·302	30·251	29·351	73·3	87·7	...	64·1	...	75·9	...	23·7	114·3	31·0
	Panjgur	...	26·700	...	26·658	27·045	26·362	50·9	83·4	...	56·2	...	69·8	...	27·2	108·8	22·2
	Robat	...	26·877	...	26·835	27·210	26·405	58·5	85·1	...	62·7†	...	77·3†	...	22·4†	113·1	20·7
	Seistan (*a*)		28·181			28·600	27·630	59·6	90·4		54·6		62·6		25·5	109·5	21·7
	Hill stations, excluding Kashmir and Baluchistan.																
	Parachinar	6,000	24·014	—·007	24·390	24·681	24·006	55·9	76·8	+0·2	42·7	—0·3	59·0	—0·1	22·5	92·3	18·6
	Cherat	4,256	25·078	+·005	25·046	25·308	25·271	61·3	91·6	—1·2	53·0	—0·6	68·9	—0·9	15·7	101·6	26·9
	Drosh (*a*)	...	25·009	...	...	25·425	24·650	56·3	77·8	—1·6	42·7	+1·1	62·0	—0·8	18·5	106·3	24·2
	Murree	6,333	23·870	—·005	23·788	24·056	23·531	54·4	83·2	—1·2	51·2	+1·1	67·5	—0·1	12·5	91·1	19·8
	Simla	7,382	23·082	—·001	23·050	23·310	22·619	54·5	80·6	—0·1	50·4	+0·7	65·6	+0·3	10·4	79·6	25·9
	Sarsin	...	26·110	—·025	23·079	23·315	22·835	49·2	69·9	+1·2	43·2	+0·6	56·0	+0·9	19·7	89·0	20·9
	Kalabagh ‡	...	26·106	—·007	26·071	26·230	25·600	49·3	64·6	+0·3	45·4	+1·9	55·1	+0·9	9·4	81·8	14·9
	Chakrata	7,072						49·45	68·18	+0·85	54·05	+0·78	61·05	+0·05	14·05	86·0	22·5
	Mukteswar	7,502	22·834	—·011	22·783	23·051	22·554	53·9	69·7	—0·4	40·4	+1·1	55·5	+0·3	14·3	83·0	23·6
	Darjiling	7,482	22·935	—·009	22·890	23·183	22·715	53·3	61·3	+3·5	46·0	+1·3	54·2	+1·9	12·7	76·0	30·9
	Shillong	4,920	25·131	—·004	25·063	25·347	24·832	60·9	69·9	—0·8	54·7	+0·3	61·9	+0·3	15·7	82·6	31·7
	Cherrapunji	4,309	25·663	—·013	25·614	25·894	25·353	62·6	69·2	+0·7	57·4	+0·2	63·3	+0·5	11·8	88·0	41·1
	Maymyo	3,546	26·424	—·001	26·389	26·688	26·106	68·7	76·8	—0·2	52·1	+1·1	64·9	+0·5	19·7	93·0	38·8
	Pachmarhi	3,528	26·396	—·038	26·343	26·728	26·016	68·0	79·7	—0·1	61·2	+0·3	70·5	+0·1	18·4	105·6	37·1
	Mount Abu	3,945	26·002	—·025	25·952	26·273	25·690	67·6	75·1	—0·2	59·1	+0·1	67·2	—0·1	15·6	87·2	32·4
	Mercara	3,781	26·204	—·029	26·137	26·363	26·011	65·6	72·3	—0·8	59·9	—1·4	66·1	—0·9	16·4	92·0	51·0
	Ootacamund	7,337	23·036	—·013	22·974	23·170	22·678	58·0	66·7	+1·2	48·5	—0·7	57·6	+0·3	18·3	77·7	31·1
	Kodaikanal	7,663	22·813	—·020	22·748	23·025	22·567	55·2	64·9	+1·2	50·8	—0·3	58·2	+0·5	15·1	76·9	40·3
	Extra India.																
	Singapore (*b*)	10	29·932	—·103	29·763	29·977	29·683	82·9	88·1	+0·3	74·2	+0·5	81·1	+0·3	13·9	93·5	69·0
	Penang (*b*)	17	29·945	—·070	29·787	29·998	29·703	83·3	89·0	—0·4	73·1	—0·7	81·0	—0·5	15·9	94·0	66·0
	Trincomalee	99	29·783	—·024	29·811	29·953	29·573	78·0	90·7	+2·1	65·3	—0·5	83·3	+0·8	14·8	101·0	63·5

N. B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau-stations, the elevations of which exceed 3,200 feet.
(*a*) Aneroid. (*b*) 9 hrs. observatories.

* Mean of 7 months.
† " " 6 "
‡ " " 9 "

(May to October.)

B—contd.

stations in India, etc., in the year 1916.

Wind direction. Number of winds from									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.					Station.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Greatest rainfall during year.	
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
																								Kashmir—contd.
361	9	17	6	14	28	10	1	0	3·6	1·5	+1·1	60*	0	·200*	+·016*	4·4	−0·4	11	+1·4	3·34	3·26	+0·09	0·59	Leh.
301	0	0	8	3	6	17	29	2	3·1	...	...	47‡	−10*	·246‡	−·030‡	4·4	−0·4	8	−11·0	2·22	7·48	− 5·26	0·32	Skardu.
343	1	0	2	1	0	16	3	1	0·2	...	...	56	+ 7‡	·339‡	+·071‡	3·8	−1·1	9	−6·9	2·66	5·11	− 2·45	0·40	Gilgit.
																								Baluchistan.
340	3	8	4	0	0	5	5	0	1·9	...	...	54	...	·208	...	0·9	...	35	...	10·77	...	...	1·12	Fort Sandeman.
293	4	10	17	20	13	2	3	5	2·2	2·1	+0·1	66‡	+13‡	·332‡	+·009‡	2·5	+0·6	19	− 5·2	8·61	10·02	−1·41	1·84	Quetta.
37	3	3	115	107	72	22	5	2	4·2	5·9	−1·7	53‡	+ 9‡	·322‡	+·059‡	2·3	+0·3	23	+ 4·4	8·02	6·68	+1·34	0·62	Chaman.
329	0	0	1	0	3	1	0	1	4·5	...	...	63	+19‡	·263	+·022‡	2·0	...	17	− 0·8	7·01	6·74	+0·27	0·96	Kalat.††
100	35	91	33	20	19	30	16	22	4·4	...	...	40	...	·228	...	2·3	...	10	...	5·00	...	...	1·21	Dalbandin.
44	58	10	14	6	6	26	136	67	7·1	...	...	77	...	·661	...	2·3	...	10	...	6·27	...	...	1·66	Pasni.
134	17	108	60	5	6	15	8	15	4·7	...	...	57	...	·338	...	2·1	...	17	...	8·87	...	...	1·63	Panjgur.
63	3	21	13	12	25	153	66	6	4·1	...	...	35	...	·190	...	2·0	...	13	...	4·07	...	...	0·82	Robat.
139	50	3	2	0	1	0	2	168	9·3	...	...	57	...	·299	...	1·1	...	8	...	2·18	...	...	0·61	Soistan.††
																								Hill stations, excluding Kashmir and Baluchistan.
366	0	0	0	0	0	0	0	0	0·7	...	...	57	+2	·289	+·012	2·2	−1·2	66	+2·2	25·91	27·85	−1·94	1·72	Parachinar.
39	203	5	0	19	76	8	5	11	2·1	3·6	−1·5	51	−3	·310	−·006	3·7	+0·7	43	−0·7	24·61	27·48	−2·87	1·59	Cherat.
286	2	32	32	5	1	6	8	0	3·9	...	...	57	+3	·283	−·014	3·6	+0·7	42	+1·8	19·36	16·95	+ 2·42	1·23	Drosh.
130	77	9	14	35	23	8	0	21	4·8	5·3	−0·5	56	0	·286	−·004	3·9	+0·3	75	− 1·3	76·92	57·07	+19·85	5·87	Murree.
...	...	...	...	...	...	...	...	...	...	...	...	57	0	·283	+·007	4·1	0	93	+ 6·9	57·57	63·11	− 5·54	3·54	Simla.
...	...	...	...	...	...	...	...	...	...	...	...	74‡	+8‡	·344‡	+·025‡	4·2	+0·2	93	+ 3·0	68·53	64·55	+ 3·98	3·43	Sarain.
47	65	5	1	0	46	9	0	9	5·5	...	...	77	+8	·377	+·037	5·9	+0·9	87	+19·5	66·46	55·00	+11·46	4·35	Kalabagh.
69	9	102	36	7	1	31	13	6	6·7‡	4·6‡	+2·1	66‡	+1‡	·349‡	+·015‡	5·4	+2·1	76	−11·5	60·92	72·44	−11·52	5·67	Chakrata.‡‡
84	3	16	22	43	13	5	115	15	5·8	...	...	69	−1	·360	−·012	4·5	+0·4	80	+ 0·4	61·49	50·90	+10·59	5·40	Muktesvar.
240	1	3	3	3	1	1	10	1	0·9	3·5	−2·6	86	+1	·354	+·001	6·8	+1·0	130	+ 8·2	137·18	121·00	+16·18	7·27	Darjiling.§§
194	5	12	24	18	47	53	8	3	2·6	...	...	76	+2	·421	+·009	5·4	+1·1	134	+ 8·3	95·91	84·65	+11·26	5·40	Shillong.
66	14	65	57	15	31	62	49	7	4·7	...	...	81	0	·475	+·006	6·5	+1·1	152	− 3·8	466·25	409·90	+56·35	31·97	Cherrapunji.
301	0	0	0	0	4	40	2	2	1·4	...	...	57	+3	·529	+·010	3·9	−0·4	92	+ 1·4	58·00	56·57	+ 1·43	2·75	Maymyo.
88	15	24	26	23	13	45	68	65	3·8	4·3	−0·5	68	+8	·458	+·028	3·8	+0·1	88	+11·1	105·16	75·33	+29·83	9·17	Pachmarhi.
80	14	44	4	11	9	134	36	34	5·0	3·7	−0·7	54	0	·372	+·005	3·7	+0·4	66	+12·1	85·25	60·80	+25·45	10·37	Mount Abu.
108	7	51	53	6	1	49	79	17	3·2	4·3	−2·1	84	−1	·531	−·011	6·1	−0·3	138	+ 4·7	128·64	126·88	+1·76	5·79	Mercara.‖‖
114	4	5	40	97	35	26	43	31	3·3	...	...	69	+1	·327	+·003	5·9	+0·9	96	− 8·7	42·37	50·30	− 7·93	4·03	Ootacamund.
3	56	61	49	37	9	11	87	53	3·7	...	...	69	0	·315	−·007	4·2	−0·3	88	−19·7	55·43	61·68	− 6·23	2·37	Kodaikanal.
																								Extra India.
122	27	66	15	38	17	30	5	40	...	...	...	...	...	...	...	6·5	+1·3	136	− 7·4	94·17	93·99	+ 0·18	3·32	Singapore.
0	76	33	56	62	18	12	31	30	...	...	...	...	...	...	...	7·2	+5·7	113	−19·6	86·04	106·41	−20·37	4·60	Penang.
6	14	35	32	4	13	144	123	7	6·7	7·3	−0·6	82	−3	·790	−·069	5·5	+2·2	52	−19·8	38·07	62·16	−24·09	3·35	Trincomalee.

* Mean of 7 months.
† „ „ 6 „
‡ „ „ 8 „
§ „ „ 12 „
‖ „ „ 9 „

¶ Mean of 10 months.
†† Wind observations of 365 days.
‡‡ „ „ „ 277 „
§§ „ „ „ 363 „

‖‖ Wind observations of 364 days.

TABLE

(2) Abstract of observations taken at 8 hrs. at 218

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of year.	Lowest pressure of year.	Temperature of air. Mean of 8 hrs. dry bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	Extra India—*concld.*																
	Colombo	24	29·888	—·029	29·837	30·054	29·707	76·0	86·3	—0·9	73·9	—1·6	80·1	—1·3	12·4	96·8	64·1
	Hambantota	64	29·841	...	29·831	30·014	29·670	75·9	86·5	...	74·5	...	80·5	...	11·9	93·8	66·5
	Minicoy	7	29·945	+·007	...	30·095	29·730	...	...	...	...	...	...	...	...	...	...
	Amini Divi	13	29·893	—·036	29·834	30·069	29·671	81·8	88·4	+1·5	76·5	—0·5	82·4	+0·5	11·8	96·2	66·3
	Gyantse *	13,110	18·505	...	18·466	18·672	18·302	34·3	55·7	...	13·5	...	34·7	...	42·2	74·8	0·3
	Gangtok	5,667	24·463	+·006	24·418	24·624	24·228	58·5	68·6	+0·4	52·6	+6·8	66·6	+3·6	16·0	80·9	35·2
	Gartok (c) †	15,190	15·611	...	...	15·200	14·900	40·5	63·1	...	41·3	...	52·8	...	21·8	80·8	34·7
	Kashgar (c) ¶	4,255	25·585	—·087	...	25·750	24·000	40·2	66·2	+1·1	35·3	0	47·8	+0·5	24·9	99·8	6·5
	Kabul (c)	...	24·130‖	—·125§	...	24·420	23·630	46·3	76·7	+4·6	44·5	+3·0	60·6	+3·6	32·1	107·6	17·2
	Meshed	3,104	25·958*	...	22·085*	26·290	25·624	40·7	70·6	+2·0	41·0	—3·5	55·8	—0·7	29·0	101·4	9·5
	Jask	13	29·843	—·010	29·809	30·340	29·419	75·4	86·7	+0·3	71·8	—1·8	79·3	—0·7	14·9	106·5	46·5
	Muscat	20	29·330§	—·004§	29·808§	30·331	29·425	79·5	88·3	+3·2	76·6	—1·8	82·5	+0·7	11·8	108·1	56·9
	Bushire	14	29·837	—·018	29·813	30·376	29·364	73·3	81·6	—0·5	68·2	—0·4	74·9	+0·5	13·4	108·8	42·2
	Busrah	25	29·824‖	—·062§	29·800§	30·296	29·352	72·8§	86·9	+2·6	62·3	—2·7	74·7	—0·1	24·6	112·9	31·1
	Ispahan (c) **	5,817	24·261	—·053	...	24·620	24·020	59·2	78·8	—1·0	52·1	+0·5	66·0	+0·3	27·7	102·4	22·2
	Tehran (c) ††	4,002	25·720	—·137	...	26·000	25·400	50·0	63·5	—3·4	45·0	+0·3	54·2	—1·5	18·5	91·5	19·0
	Aden	24	29·789	—·040	29·816	30·071	29·474	79·8	86·9	—1·1	77·6	—0·4	82·2	+0·7	9·3	100·3	67·3
	Zanzibar	72	29·977	—·016	29·959	30·169	29·780	78·7	84·1	+0·3	76·2	—0·2	80·2	+0·1	7·9	92·7	69·5

N.B.—Elevations in italics indicate barometrical determinations.
Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.
(c) Aneroid.

* Mean of 5 months.
† " " 3 "
‖ " " 11 "
§ " " 10 "
‖ " " 11 "
¶ " " 9 "
** " " 8 "
†† " " 6 "

B—concld.

stations in India, etc., in the year 1916.

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Wind velocity. Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Hygrometry, 8 hrs. Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Cloud. Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Rainfall. Number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	Station.
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
																								Extra India —concld.
144	16	61	6	9	3	70	35	26	4·0	5·8	−1·8	86	+ 6	·726	−·059	9·2	+ 4·0	118	+ 9·3	90·79	94·53	+ 6·17	7·95	Colombo.
15	90	50	0	0	0	55	119	37	0·8	...	...	86	...	·790	...	4·0	...	67	...	33·64	38·04	− 5·40	2·31	Hambantota.
36	61	53	14	10	6	20	60	74	4·5	6·9	−2·4	...	...	...	...	4·7	+0·1	78	−14·5	55·07	61·84	− 6·77	4·24	Minicoy.
13	89	45	2	3	1	47	81	94	6·1	...	...	78	+ 1	·851	−·009	5·4	0	94	+19·4	70·39	52·36	+18·03	4·40	Amini Divi.
53	1	0	2	68	2	8	1	7	6·1	...	...	...	...	...	...	0	...	1	...	0·78	...	...	0·60	Gyantse.
334	4	16	0	0	0	3	4	5	0·6	...	...	85	+ 3	·456	+ ·017	2·4	−1·5	175	+ 9·6	142·27	135·11	+ 7·16	3·75	Gangtok.
46	0	0	9	39	0	2	0	1	6·5	...	...	...	...	...	...	2·9	...	13	...	5·99	...	...	0·62	Gartok.
201	11	10	2	2	2	0	2	14	1·0	1·6	−0·6	53*	+ 4*	·259*	+·020*	4·0†	+0·4	5	+ 0·4	1·31	3·29	− 1·97	0·32	Kashgar.
0	14	26	14	24	12	132	137	36	...	...	...	72†	+ 22†	·336†	+ ·018†	2·4	+0·6	24	− 3·6	14·27	12·99	+ 1·28	2·31	Kabul.‡
336	15	2	2	4	4	0	6	1	1·0	...	...	59†	0 †	·206†	−·000†	3·3	+0·4	32	+ 9·5	9·46	9·37	− 0·91	0·76	Meshed.
19	76	61	203	15	1	4	9	66	8·4	8·7	−0·3	66	− 4	·623	−·111	1·6	−0·3	15	+ 6·1	6·62	4·17	+ 2·65	1·70	Jask.
71	3	20	38	44	2	10	15	151	2·9	3·2	−0·3	63	− 5	·643	−·005	2·3	+0·4	21	+12·6	10·46	3·94	+ 6·51	3·10	Muscat.‡
175	30	39	25	35	10	1	16	45	5·3	5·8	−0·5	73	+ 4	·649	+ ·030	2·9	+0·8	21	+ 3·0	9·40	11·07	− 1·67	1·73	Bushire.
5	13	15	21	32	17	58	130	33	4·3	...	...	64‡	...	·536‡	...	1·2**	...	19	+ 4·3	8·40	6·23	+ 2·17	1·37	Busrah. ¶
223	2	22	0	1	0	5	11	0	1·2	2·8	−1·6	56	+ 1	·381	−·043	1·5	−0·2	3	− 3·8	0·90	2·37	−1·47	0·18	Ispahan.
51	8	58	7	5	5	9	2	6	2·7††	...	...	66	+ 7	·280	+ ·019	3·8	+0·9	34	+16·2	14·21	6·33	+ 8·89	1·50	Tehran.
81	51	174	13	19	13	13	1	3	9·7	9·1	+0·6	78	+ 4	·793	−·005	4·5	+0·5	3	− 2·5	1·11	2·24	− 1·13	0·63	Aden.
37	33	47	5	30	103	93	9	0	4·7	4·9	−0·2	81	− 2	·795	−·030	0·9	+0·7	77	−11·8	63·50	63·30	+ 0·20	10·90	Zanzibar.‡‡

† Mean of 3 months.
* " " 6 "
‡ " " 11 "
§ " " 6 "
†† " " 5 "

** Wind observations of 346 days.
" " " 364 "
" " " 363 "
" " " 363 "

Table C.—Abstract of observations taken at 8 hrs. at 58 fourth and fifth class stations in India, etc., in the year 1916.

TABLE

Abstract of observations taken at 8 hrs. at 58 fourth and

Number of sub-division.	Station.	Temperature of air.										Wind direction. Number of winds from								
		Mean of 8 hrs. dry bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Calms.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	II.—Assam.																			
4	Bishnath	70·2	83·5		56·0		74·7		17·5	99·2	40·9	...	...	...	...	...	...	...	...	...
	Borjuli	72·5	86·9		58·2		74·6		28·6	99·6	32·1	...	...	...	...	...	...	...	...	...
	Chandkhira	71·5	89·5		53·6		73·8		31·5	101·6	35·0	...	...	...	...	...	...	...	...	...
	Doom Dooma	68·0	84·4		54·2		74·3		30·2	101·1	40·5	...	...	...	...	...	...	...	...	...
	Dikom	69·4	83·6		54·4		73·5		18·2	99·2	38·2	...	...	...	...	...	...	...	...	...
	Golaghat	70·0	89·1		54·2		73·1		42·6	99·0	40·2	...	...	...	...	...	...	...	...	...
	Hailakandi	73·5	86·3		56·4		76·4		19·9	97·0	43·4	...	...	...	...	...	...	...	...	...
	Jorehat	70·2	83·7		54·6		74·6		16·1	97·5	44·6	...	...	...	...	...	...	...	...	...
	Lumding	71·1	85·1		56·5*		73·8*		16·2*	101·9	46·4	...	...	...	...	...	...	...	...	...
	Mesua	72·0	88·4		52·4		75·4		26·0	101·6	40·8	...	...	...	...	...	...	...	...	...
	Panerihat	66·2	94·2		53·9		74·0		29·3	98·3	39·9	...	...	...	...	...	...	...	...	...
	III.—Bengal.																			
5	Comilla	...	...		...		...		...	...	...	...	...	...	...	...	...	...	...	...
	Brahmantaria	76·9	97·2		55·1		76·1		12·2	98·3	46·1	...	...	...	...	...	...	...	...	...
	Faridpur	...	...		...		...		...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	75·8	97·7		57·4		77·6		20·4	106·3	41·1	...	...	...	...	...	...	...	...	...
	Pabna	76·4	98·2		59·6		78·9		18·5	108·8	46·7	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...		...		...		...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...		...		...		...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...		...		...		...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...		...		...		...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	67·9	89·5		52·8		76·1		36·7	100·1	35·6	...	...	...	...	...	...	...	...	...
	Kalchini	74·6	94·7		52·8		73·8		23·0	97·1	40·2	...	...	...	...	...	...	...	...	...
	Nagrakata	74·8	94·9		54·6		74·8		20·3	98·1	45·0	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...		...		...		...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...		...		...		...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...		...		...		...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...		...		...		...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																			
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 11 months.

C.

fifth class stations in India, etc., in the year 1916.

Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.					Heaviest rainfall during year.	Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Mean humidity at 8 hrs. of day.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Departure from normal of year.	Rainfall for the year.	Normal rainfall for the year.	Departure from normal of year.		
22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
															II.—Assam.
			91	— 2	·706	+·029	...	...	113	— 4·6	88·29	88·58	— 0·29	4·53	Bishnath.
			95	— 2	·710	+·027	...	...	104	— 6·8	85·34	77·73	+ 7·61	3·95	Borjuli.
			93	+ 3	·780	+·066	...	...	118	— 12·3	99·37	106·52	— 7·15	4·75	Chandkhira.
			89	— 4	·686	—·030	...	...	134	— 5·5	96·21	96·74	— 0·53	4·46	Doom Dooma.
			90	— 2	·667	+·014	...	...	126	— 9·1	109·24	102·47	+ 6·77	6·00	Dikom.
			92	+ 2	·702	+·007	...	...	118	+ 7·4	87·06	65·66	+21·40	3·35	Golaghat.
			87	— 4	·717	+·035	...	...	127	— 8·9	116·45	121·31	— 4·86	4·60	Hailakandi.
			93	+ 2	·705	+·016	...	...	118	+ 2·2	78·67	75·37	+ 3·30	3·99	Jorehat.
			87	...	·689	...	...	...	94	+ 7·1	49·35	49·01	— 0·66	5·90	Lumding.
			71	—10	·564	—·116	...	...	122	+10·3	94·95	88·62	+ 1·33	4·05	Mesa.
			93	+ 2	·827	+·024	...	...	90	—11·7	73·23	75·30	— 2·07	3·64	Paneribat.
															III Bengal.
			...	...	...	...	...	...	89	—11·7	64·11	68·38	— 4·27	5·70	Comilla.
			79	— 5	·743	—·014	...	...	89	—14·8	74·79	79·33	— 4·54	4·24	Brahmanbaria.
			...	...	...	...	...	...	93	+ 3·2	82·06	69·39	+12·74	4·69	Faridpur.
			80	— 2	·750	+·007	...	...	97	+ 6·9	86·38	66·28	+19·10	4·30	Goalundo.
			88	+ 2	·767	+·026	...	...	98	+ 6·7	80·93	60·11	+20·82	3·85	Pabna.
			...	...	...	...	...	...	93	+ 4·2	74·25	64·30	+ 9·95	5·72	Sirajganj.
			...	...	...	...	...	...	70	+ 5·3	67·90	53·98	+13·92	7·19	Rampur Boalia.
			...	...	...	...	...	...	97	+19·2	73·67	52·83	+20·85	8·00	Malda.
			...	...	...	...	...	...	98	+ 3·3	91·92	80·53	+11·39	9·55	Rangpur.
			90	— 2	·659	—·031	...	...	134	+12·5	164·68	154·04	+10·64	6·35	Dam Dim.
			87	— 5	·690	—·021	...	...	141	+25·2	191·65	160·71	+30·94	6·43	Kalchini.
			75	— 5	·659	+·008	...	...	134	+ 1·9	153·24	161·05	— 7·81	5·73	Nagrakata.
			...	...	...	...	...	...	124	+20·4	189·96	145·69	+44·27	8·13	Cooch Behar.
			...	...	...	...	...	...	93	+ 7·0	66·13	57·05	+ 9·08	5·45	Krishnagar.
			...	...	...	...	...	...	78	+ 6·7	73·82	55·39	+18·43	7·90	Bankura.
			...	...	...	...	...	...	79	+ 6·8	62·51	53·73	+ 8·78	10·71	Raniganj (Asansol).
															IV.—Bihar and Orissa.
			...	...	...	...	...	...	81	+ 8·6	56·63	53·25	+ 4·38	4·86	Hazaribagh.
			...	...	...	...	...	...	74	+14·0	49·70	49·00	— 0·30	3·90	Bhagalpur.
			...	...	...	...	...	...	66	+ 9·9	57·57	49·11	+ 8·46	4·93	Muzaffarpur.
			...	...	...	...	...	...	64	+ 5·3	55·27	53·61	+ 1·66	5·16	Motihari.
			...	...	...	...	...	...	63	+ 9·8	57·07	41·81	+15·26	8·16	Chapra.
			...	...	...	...	...	...	68	+13·9	60·78	44·25	+ 6·53	5·13	Arrah.
			...	...	...	...	...	...	68	+14·0	46·76	42·16	+ 4·60	3·43	Dearí.

TABLE

Abstract of observations taken at 8 hrs. at 58 fourth and

Number of sub-division.	Station.	Temperature of air.										Wind direction.								
		Mean of 8 hrs. dry bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Number of winds from								
												Calms.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	V.—United Provinces of Agra and Oudh.																			
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																			
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																			
23	Chhindwara	71·0	86·5	...	56·3	...	75·4	...	22·2	111·0	36·7	238	16	8	5	3	6	18	33	40
	XIII.—Hyderabad.																			
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																			
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	77·6	92·7	...	70·7	...	81·7	...	21·9	107·4	50·2	...	...	...	...	...	...	...	...	...
33	Guntur	79·2	92·1	...	73·9	...	83·0	...	19·2	110·5	56·2	...	...	...	...	...	...	...	...	...
	Bay Islands.																			
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																			
13	Jammu	71·3	85·1	...	56·1	...	75·6	...	19·0	109·1	36·6	0	151	154	14	15	8	5	47	14
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	46·9	66·9	...	33·7	...	50·3	...	33·2	99·0	−13·4	0	119	45	40	68	26	14	6	53
	Baluchistan.																			
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																			
	Panighatta	71·9	83·1	...	65·8	...	74·5	...	17·3	95·9	44·0	...	...	...	...	...	...	...	...	...
	Kunsong	63·5	68·7	...	58·9	...	63·8	...	11·9	83·3	40·2	...	...	...	...	...	...	...	...	...
	Gnatong *	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim †	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussoorie	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo ‡	...	63·4	...	43·1	...	53·7	...	21·3	98·4	13·2	140	5	4	39	83	21	40	26	16
	Kailang §	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	74·9	...	41·7	...	58·3	...	33·2	100·6	9·0	...	...	...	...	...	...	...	...	...

* Observations of 10 months.
† " " 5 "
‡ " " 11 "
§ " " 7 "

C—contd.

fifth class stations in India, etc., in the year 1916—contd.

Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.						Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Departure from normal of year.	Rainfall for the year.	Normal rainfall for the year.	Departure from normal of year.	Heaviest rainfall during year.	
22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
															V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	50	+11·1	45·27	32·27	+13·00	6·67	Meerut.
...	...	...	...	...	...	...	...	...	85	+ 4·8	94·38	85·22	+ 9·16	5·37	Dehra Dun.
															IX.—Rajputana.
...	...	...	...	...	...	...	...	...	43	+10·5	30·95	23·40	+ 7·55	3·25	Udaipur.
															XII.—Central Provinces.
3·4	...	...	65	...	·301	...	3·7	...	74	...	55·17	...	...	4·49	Chhindwara.
															XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	64	+17·9	43·06	31·75	+11·33	4·18	Parbhani.
															XV.—Madras.
...	...	...	...	...	...	...	...	...	28	—12·4	18·82	27·29	— 8·47	2·92	Tinnevelly.
...	...	...	76	...	·731	...	4·2	...	49	+15·9	30·03	29·29	+ 0·74	2·67	Anantapur.
...	...	...	82	...	·813	...	2·2*	...	64†	+13·8	51·30†	33·55	+18·75	3·54	Guntur.
															Bay Islands.
...	...	...	...	...	...	...	...	...	96	—66·2	103·04	98·51	+ 5·43	5·30	Car Nicobar.
															Kashmir.
...	...	...	57	...	·475	...	2·7	...	53	+ 3·0	55·12	41·81	+13·31	5·40	Jammu.
...	...	...	...	...	...	...	...	...	104	— 5·7	56·44	77·84	—21·40	2·75	Sonamarg.
...	...	...	39*	...	·220*	...	6·6	...	13	— 9·5	3·90	9·85	— 5·95	0·84	Kargil.
															Baluchistan.
...	...	...	...	...	...	...	...	...	25	+ 1·4	13·45	12·04	+ 1·41	1·53	Harnai.
															Hill stations, exclusive of Kashmir.
5·1	...	...	73	+ 1	·593	+·007	...	...	128	+13·5	163·77	137·63	+26·24	7·34	Panighatta.
...	...	...	94	+14	·576	+·134	...	...	131	0	165·29	153·54	+31·74	9·46	Kurseong.
...	...	...	...	...	...	...	...	...	122	...	179·40	...	...	6·80	Gnatong.
...	...	...	...	...	...	...	...	...	155	...	61·84	...	...	1·32	Lachung.
...	...	...	...	...	...	...	...	...	97	...	114·80	...	...	7·51	Singim.
...	...	...	...	...	...	...	...	...	104	+13·8	129·32	93·90	+35·42	15·01	Mussoorie.
...	...	...	...	...	...	...	4·2	+0·2	24‡	—10·1	9·92‡	14·10	— 4·78	0·51	Pdo.
...	...	...	...	...	...	...	...	...	13	— 5·1	4·29	7·90	— 3·59	1·08	Kailang.
...	...	...	...	...	...	...	1·9§	...	21	+ 2·1	8·36	8·11	+ 0·25	1·62	Plahlin.

* Mean of 7 months.
† Observations of 11 months.
§ Mean of 9 months.
‡ Observations of 12 months.

TABLE

Abstract of observations taken at 8 hrs. at 58 fourth and

Number of sub-division.	Station.	Temperature of Air.										Wind direction. Number of winds from								
		Mean of 8 hrs. dry-bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Extra India.																			
	Chumbi	40·6†	48·8*	...	33·3*	...	40·05	...	15·6§	69·6	10·0	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Observations of 10 months.
† " 11 "
§ " 9 "

C.—concld.

fifth class stations in India, etc., in the year 1916—concld.

Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.						Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Departure from normal of year.	Rainfall for the year.	Normal rainfall for the year.	Departure from normal of year.	Heaviest rainfall during year.	
22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
															Extra India.
...	...	...	91‡	...	·328‡	...	2·55	...	63†	...	24·91†	...	...	2·30	Chumbi.
...	...	...	...	...	...	...	...	...	103.	—1·2	67·86	33·53	—16·02	4·21	Pemba.

† Observations of 11 months. ‡ Mean of 9 months.
‡ " 7 "

Addenda Sheet of 10 and 16 hrs. Observations in Table A of 1916, Monthly Weather Reviews.

Addenda Sheet of Observations taken at 10 hrs. and

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure.						Temperature of air.										Temperature, wet-bulb.			
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea-level and to gravity at 45° lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	January 1916.																					
	Extra India.																					
	Mauritius . . .	181	...	...	...	29·663	−·041	30·736	83·9	73·4	10·4	87·3	69·3	18·0	...	...	77·7	−1·1	...	...	...	73·9
	April 1916.																					
	Extra India.																					
	Mauritius . . .	181	...	...	...	29·728	−·024	29·805	83·7	69·1	13·1	86·6	62·6	23·9	...	...	76·0	−0·4	...	...	...	71·9
	May 1916.																					
	Extra India.																					
	Seychelles . . .	15	29·922	29·838	·084	29·881	−·060*	29·819	84·7	73·9	5·8	86·5	75·5	11·0	82·7	82·7	80·4	+0·9*	72·6	77·3	77·7	75·9
	Mauritius . . .	181	...	...	...	29·716	−·118	29·844	78·1	68·5	9·6	81·3	63·7	17·6	...	...	72·7	+0·6	...	...	...	69·1
	June 1916.																					
	Extra India.																					
	Mauritius . . .	181	...	...	...	29·864	−·047	29·992	75·6	64·2	11·4	79·8	58·8	20·9	...	...	69·9	+0·3	...	...	...	65·2
	July 1916.																					
	Extra India.																					
	Mauritius . . .	181	...	...	...	29·925	−·024	30·056	73·4	58·8	14·4	76·3	54·5	21·8	...	...	65·8	−2·0	...	...	...	60·4
	August 1916.																					
	Extra India.																					
	Mauritius . . .	181	...	...	...	29·928	−·027	30·060	75·2	61·5	13·7	78·4	54·1	24·3	...	...	67·6	−0·5	...	...	...	59·0
	October 1916.																					
	Extra India.																					
	Mauritius . . .	181	...	...	...	29·881	−·006	30·011	76·6	64·8	13·5	82·2	61·3	20·9	...	...	70·9	−1·1	...	...	...	65·7

* Departure from old normal.

16 hrs. in Table A of 1916, Monthly Weather Reviews.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind Direction.										Wind steadiness.		Wind velocity.		Rainfall.		Station.
														Total number of 10 hrs. and 16 hrs. winds from																
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal mean wind direction of month.	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															January 1916.
																															Extra India.
...	...	..	·783	+·027	...	...	...	80	+ 4	...	...	7·7	+1·5	...	...	...	...	...	...	...	...	...	N 79°E	S 86° E	...	...	159	...	11·37	3·14	Mauritius
																															April 1916.
																															Extra India.
...	...	...	·715	+·024	...	...	...	82	+ 3	...	...	5·3	+0·2	...	...	...	...	...	...	...	...	...	S 77°E	S 72°E	...	...	91	...	5·59	1·11	Mauritius
																															May 1916.
																															Extra India.
·715	·867	·873	·831	—·015	73	77	76	77	— 3	5·9	5·8	5·9	+0·6*	13	1	2	5	15	9	4	3	10	S 18°E	S 43°E	23	69	84	120	8·36	6·07	Seychelles
...	...	...	·850	+ ·029	...	...	...	81	+ 3	...	...	6·6	+2·0	...	...	...	...	...	...	...	...	...	S 62°E	S 64°E	...	...	173	...	7·49	2·53	Mauritius
																															June 1916.
																															Extra India.
...	...	...	·561	+·024	...	...	...	79	+ 3	...	...	4·9	+0·1	...	...	...	...	...	...	...	...	...	S 62°E	S 63°E	...	...	152	...	1·89	0·30	Mauritius
																															July 1916.
																															Extra India.
...	...	...	·449	+·059	...	...	..	71	+ 4	...	...	5·1	+0·2	...	...	...	...	...	...	...	...	...	S 62°E	S 64°E	...	...	145	...	0·75	0·11	Mauritius
																															August 1916.
																															Extra India.
...	...	...	·502	+·008	...	...	...	74	0	...	...	5·9	+0·9	...	...	...	...	...	...	...	...	...	S 63°E	S 66°E	...	...	147	...	1·10	0·16	Mauritius
																															October 1916.
																															Extra India.
...	...	...	·549	+·093	...	...	...	73	+ 3	...	...	5·8	+0·8	...	...	...	...	...	...	...	...	...	S 80°E	S 77°E	...	...	154	...	5·79	1·55	Mauritius

* Departure from old normal.

Addenda Sheet of 8 hrs. Observations in Table B of 1916, Monthly Weather Reviews.

Addenda Sheet of 8 hrs. Observations

Number of sub-division.	Station.	Height of bar. cistern above sea-level, in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	January 1916.																					
	Extra India.																					
	Tehran (c) * . . .	4,002	25·745	−·155	...	26·000	2nd	25·540	19th	32·7	30·1	46·6	+3·0	30·2 (d)	+4·1	38·4 (d)	+3·5	16·4	58·3	17th	21·0	30th
	February 1916.																					
	Extra India.																					
	Tehran (c) * . . .	4,002	25·741	−·139	...	26·000	4th	25·600	20th	32·5	30·8 (e)	47·4	−3·3	30·1	−2·0	38·8	−2·7	17·3	56·9	21st	19·0	1st & 2nd.
	March 1916.																					
	Extra India.																					
	Tehran (c) * . .	4,002	25·731	−·099	...	25·940	29th	25·540	13th	44·2	41·7 (e)	67·2	−1·4	39·9	+1·3	48·5	−0·1	17·3	67·3	12th	20·1	2nd
	April 1916.																					
	Extra India.																					
	Tehran (c) (e) ‡ .	4,002	25·695	−·244	...	25·870	30th	25·400	20th	54·8	48·5	67·3	−4·1	47·6	−0·5	57·4	−2·3	19·7	73·2	21st	41·9	16th
	May 1916.																					
	Extra India.																					
	Amini Divi . . .	13	29·841	−·045	29·782	29·948	8th	29·710	22nd	85·1	79·6	92·9	+2·1	50·0	+0·5	86·4	+0·8	12·9	96·0	6th	72·1	30th
	Tehran (c) * . .	4,002	25·728	−·153	...	25·870	2nd	25·600	29th & 31st.	66·4	58·4	80·9	−1·9	59·9	+2·5	70·4	+0·3	21·0	89·5	25th	51·0	13th
	August 1916.																					
	Extra India.																					
	Minicoy . . .	7	29·927	+·007	...	29·960	18th	29·871	31st	...	...	...	...	...	...	...	...	...	...	...	...	...
	October 1916.																					
	Extra India.																					
	Amini Divi . . .	13	29·880	−·050	29·821	29·961	6th	29·723	19th	81·0	76·4	87·1	+1·2	77·6	+1·9	82·3	+1·1	9·5	92·1	14th	73·9	16th

N. B.—Elevations in italics indicate barometrical determinations.
Note.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.
(c) Aneroid.
(e) Mean of 12 days.
(d) „ „ 29 „
(d) „ „ 30 „
* 7 hrs. observations.
‡ 7 and 8 hrs. observations.

in Table B of 1916, Monthly Weather Reviews.

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour-tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall of period.	Normal rainfall of period.	Departure from normal.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															January 1916.
																															Extra India.
12	3	13	1	0	1	0	1	0	N 89° E	N 16° E	2·8	2·1	+0·2	45	−1	76	−3	·142	+·007	5·7	+1·6	5	+1·0	2·19	1·69	+0·50	2·40	2·97	−0·57	1·16	Tehran.
																															February 1916.
																															Extra India.
4·6	1	17	5	1	2	1	2	1	N 53° E	N 22° E	2·4	2·6	−0·2	59	+29	75*	...	·178*	...	3·9	+0·9	5	+2·0	1·70	1·04	+0·66	4·10	4·01	+0·09	0·48	Tehran.
																															March 1916.
																															Extra India.
10·	1	14	3	2	0	0	0	1	N 54° E	N 14° E	3·0	2·8	+0·2	55	+33	75†	+5	·227†	+·038	4·5	+0·5	12	+6·4	3·07	1·93	+1·14	10·17	5·94	+4·23	1·50	Tehran.
																															April 1916.
																															Extra India.
12·	1	6	1	0	1	3	1	4	N 11° W	S 63° W	4·4‡	3·2	+1·2	17	+2	63	+6	·270	+·001	4·5	+1·4	7	+4·0	2·54	1·13	+1·41	12·71	7·07	+5·64	1·28	Tehran.
																															May 1916.
																															Extra India.
1	9	1	0	1	0	3	4	10	N 45° W		6·1	...	...	58	...	78	+ 2	·687	+·006	5·8	0	10	+5·7	9·31	3·14	+6·17	9·81	3·14	+6·67	3·10	Amini Divi.
13	2	8	0	3	1	3	0	0	N 56° E	S 46° W	2·81	2·6	+0·2	10	−6	63	+15	399	+·063	2·8	+0·3	5	+3·1	2·41	0·45	+1·96	2·42	0·45	+1·96	0·80	Tehran.
																															August 1916.
																															Extra India.
0	2	0	0	0	0	0	2	18	N 75° W	N 78° W	5·1	10·9	−5·8	87	−3	...	...	...	...	5·1	−0·5	4	−6·2	1·25	7·46	−6·21	36·85	31·66	+5·19	0·55	Minicoy.
																															October 1916.
																															Extra India.
0	3	0	0	0	1	4	9	14	N 63° W	...	9·9	...	...	78	...	79	−1	·829	−·041	7·0	+0·7	7	+2·1	5·46	5·98	−0·52	57·73	47·24	+10·49	1·52	Amini Divi.

* Mean of 12 days.
† ,, ,, 29 ,,
‡ ,, ,, 28 ,,

Addenda Sheet of 8 hrs. Observations in Table C of 1916, Monthly Weather Reviews.

Addenda Sheet of 8 hrs. Observations in

Number of sub-division.	Station.	Temperature of air.												
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	January 1916.													
	Bay Islands.													
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...
	February 1916.													
	Bay Islands.													
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...
	March 1916.													
	Bay Islands.													
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...
	April 1916.													
	Bay Islands.													
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...
	May 1916.													
	Bay Islands.													
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...
	July 1916.													
	Extra India.													
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...
	August 1916.													
	Hill Stations exclusive of Kashmir.													
	Poo	Reported only Rainfall.												
	tober 1916.													
	Hill Stations exclusive of Kashmir.													
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...

Table C of 1916, Monthly Weather Reviews.

Wind direction.											Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.								Station.
Number of winds from											Resultant direction.	Normal direction.	Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall of period.	Normal rainfall of period.	Departure from normal of period.	Heaviest rainfall during month.	
Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.																						
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																															January 1916.
																															Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0	—4·5	0	3·80	—3·80	13·00	10·71	+1·29	0	Car Nicobar.
																															February 1916.
																															Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0	—2·5	0	1·36	—1·33	12·00	12·07	—0·07	0	Car Nicobar.
																															March 1916.
																															Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0	—2·7	0	1·50	—1·50	12·00	13·57	—1·57	0	Car Nicobar.
																															April 1916.
																															Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	—3·6	1·49	3·38	—1·89	13·49	16·95	—3·46	1·10	Car Nicobar.
																															May 1916.
																															Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8	—8·5	12·63	13·72	—1·09	12·63	13·72	—1·09	3·10	Car Nicobar.
																															July 1916.
																															Extra India.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10	+1·9	3·50	3·69	—0·19	20·03	27·22	—7·19	0·54	Pemba.
																															August 1916.
																															Hill Stations exclusive of Kashmir.
...	...	2	...	...	...	...	...	...	...	...	...	Reported only rainfall.				...	...	...	...	...	...	...	...	1·54	0·34	+1·20	3·06	2·38	+0·68	0·54	Poo.
																															October 1916.
																															Hill Stations exclusive of Kashmir.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	...	4·85	...	...	122·87	...	...	1·40	Gnatong.

Corrigenda in the India Monthly Weather Reviews for the year 1916.

TEXT.

Page.	Column.	Part.	Correction.
11	...	January 1916 . .	*For* "0·12 and — 0·12" *read* "0·11 and — 0·11" respectively against Mysore in the figure columns 4 and 5 in table 14.
12	2	Ditto . .	*For* "0·12 and — 0·12" *read* "0·11 and — 0·11" respectively against Mysore in the figure columns 2 and 3 in table 15.
84	2	August 1916 . .	*For* "+ 1·12" *read* "—1·12" against "Rainfall departure from normal" in the figure column 1 in table 7.
89	...	Ditto . .	*For* "+ 0·21" *read* "+ 5·21" against Sind in the figure column 5 in table 15.
"	...	Ditto . .	*For* "8·86, + 1·89 and + 27" *read* "7·90, + 0·93 and + 13" against Madras Coast North in the figure columns 3, 5 and 6 respectively in table 15.
"	2	Ditto . .	*For* "7·35, + 1·07 and + 17" *read* "7·12, + 0·84 and + 13" against Madras in the figure columns 1, 3 and 4 respectively in table 16.
"	2	Ditto . .	*For* "12·28, + 2·34 and + 24" *read* "12·26, + 2·32 and + 23" against Mean of India in the figure columns 1, 3 and 4 respectively in table 16.
94	1	September 1916 .	*For* "northwards" *read* "northwestwards" in line 7 under the heading "Depressions and cyclonic storms."
110	1	October 1916 . .	*For* "6·34, + 0·57 and 9" *read* "6·30, + 0·61 and + 10" against Burma in the figure columns 2, 3 and 4 respectively in table 15.
125	2	December 1916 .	*For* "M" *read* "feet" in 1st line (symbols, explanatory) of 5.—Alipur (Calcutta) Observatory, Seismic records.

Corrigenda in the India Monthly Weather Reviews for the year 1916—*contd.*

TABLES A, B & C.

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
v	January 1916	B	Mysore	Rainfall	20 and 21	*For* " 0·12 and —0·12 " *read* " 0·11 and —0·11 " respectively.
vii	Ditto	„	Mergui	Wind direction	35	*For* " S 40° W " *read* " S 4° W ".
„	Ditto	„	Noakhali	Rainfall	52	*For* " —0·35 " *read* " —0·33 ".
viii	Ditto	„	Puri	Pressure	5	*For* " + ·09 " *read* " + ·029 ".
„	Ditto	„	Bareilly	Ditto	9	*For* " 29·442 " *read* " 29·342 ".
ix	Ditto	„	Purulia	Wind velocity	36	*For* " 1·3 " *read* " 1·5 ".
xiii	Ditto	„	Sutna	Ditto	38	*For* " —2·2 " *read* " —1·2 ".
„	Ditto	„	Jubbulpore	Hygrometry	42	*For* " —? " *read* " —9? ".
„	Ditto	„	Jagdalpur	Wind direction	30 and 31	*For* " 1 and 5 " *read* " 5 and 1 " respectively.
xvi	Ditto	„	Pasni	Pressure and Temperature.	4, 6, 7, 9, 15, 17, 19, 22 and 24.	*For* " 30·086, 30·046, 30·253, 29·954, 55·2, 66·1, 21·9, 45 and 36·3 " *read* " 30·084, 30·044, 30·251, 29·952, 56·9, 66·5, 21·1, 46·0 and 35·5 " respectively.
„	Ditto	„	Chakrata	Pressure	11	*For* " ·25 " *read* " ·225 ".
xvii	Ditto	„	Gangtok	Wind direction	28	*For* " 1 " *read* " 0 ".
xxii	Ditto	C	Dam Dim	Temperature	3	*For* " 52·8b " *read* " 53·1b ".
„	Ditto	„	Foot note	...	...	*For* " b mean of 18 days " *read* " b mean of 21 days ".
xxiii	Ditto	„	Bishnath	Hygrometry	35	*For* " +0·38 " *read* " +·038 ".
„	Ditto	„	Borjuli	Ditto	35	*For* " +·018 " *read* " +·021 ".
„	Ditto	„	Dam Dim	Ditto	32, 33, 34 and 35	*For* " 856, 11, 339a, and +0·10 " *read* " 86a, —10, ·343a, and +·019 " respectively.
„	Ditto	„	Foot note	...	...	*For* " a mean of 19 days " *read* " a mean of 21 days ".
xxxiii	February 1916	B	Bengal	Rainfall	19 and 21	*For* " 0·43 and —0·49 " *read* " 0·44 and —0·48 " respectively.
xxxiv	Ditto	„	Tezpur	Temperature	23	Insert " 9th ".
xli	Ditto	„	Poona	Rainfall	51	*For* " 0·03 " *read* " 0·05 ".
xliii	Ditto	„	Rajpur	Ditto	51	*For* " 0·6 " *read* " 0·65 ".
xliv	Ditto	„	Pasni	Pressure	4, 6, 7 and 9	*For* " 30·031, 29·990, 30·212 and 29·920 " *read* " 30·035, 29·994, 30·216 and 29·924 " respectively.
xlviii	March 1916	A	Calcutta	Ditto	5	*For* " 29·337 " *read* " 29·737 ".
lxii	Ditto	B	Pasni	Ditto	4, 6, 7 and 9	*For* " 29·939, 29·899, 30·080 and 29·819 " *read* " 29·943, 29·903, 30·084 and 29·823 " respectively.
lxv	Ditto	„	Muscat	Wind direction	34	*For* " N 38° W (e " *read* " N 38° W (e) ".
lxviii	Ditto	C	Bishnath	Temperature	3	*For* 66 ·8*" *read* " 66·9* ".
lxix	Ditto	„	Ditto	Hygrometry	34 and 35	*For* " ·620 and +·100 " *read* " ·623 * and +·103 " respectively.
„	Ditto	„	Foot note	...	...	Insert " * mean of 27 days ".
xc	April 1916	B	Pasni	Pressure	4, 6, 7 and 9	*For* " 29·950, 29·810, 29·985 and 29·696 " *read* " 29·954, 29·814, 29·989 and 29·700 " respectively.

Corrigenda in the India Monthly Weather Reviews for the year 1916—*contd.*

TABLES A, B & C.—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
cv	May 1916	A	Bombay	Rainfall	54	*For* "00·6" *read* "0·06".
cxvii	Ditto	B	Trivandrum	Ditto	53 and 55	*For* "6·04 and —2·63" *read* "6·05 and —2·62" respectively.
cxviii	Ditto	„	Pasni	Pressure	4, 6, 7 and 9	*For* "29·748, 29·708, 29·952 and 29·603" *read* "29·752, 29·712, 29·956 and 29·607" respectively.
cxxi	Ditto	„	Aden	Rainfall	56	*For* "3·0" *read* "0·04."
cxxiv	Ditto	C	Hailakandi	Temperature	6, 7, 8, 9 and 10	*For* "75·3, +3·4, 83·3, +2·1 and 15·5" *read* "75·1, +3·2, 82·9, +1·9 and 15·7" respectively.
cxxvi	Ditto	„	Poo	Wind direction	25	*For* "S* 53° W" *read* "S 53° W*".
cxxxvi	June 1916	B	Akyab	Temperature	15	*For* "76·5" *read* "75·5".
„	Ditto	„	Narayanganj	Ditto	18	*For* "—0·" *read* "—0·7".
„	Ditto	„	Mymensingh	Pressure	5	*For* "—·07" *read* "—·076".
cxxxviii	Ditto	„	Jessore	Ditto	5	*For* "—·010" *read* "—·070".
„	Ditto	„	Hissar	Temperature	21	*For* "th" *read* "7th".
cxxxix	Ditto	„	Purnea	Rainfall	50, 52, 53 and 55	*For* "12·27, +1·20, 14·31 and —1·21" *read* "12·33, +1·26, 14·37 and —1·15" respectively.
cxli	Ditto	„	Bombay	Ditto	50, 52, 53 and 55	*For* "23·43, +4·95, 23·50 and +4·31" *read* "23·46, +4·98, 23·53 and +4·34" respectively.
„	Ditto	„	Karwar	Wind direction	35	*For* "S 81° W" *read* "S 82° W".
cxlv	Ditto	„	Trivandrum	Rainfall	53 and 55	*For* "20·64 and —1·00" *read* 20·65 and —0·99" respectively.
cxlvi	Ditto	„	Pasni	Pressure	4, 6, 7 and 9	*For* "29·486, 29·446, 29·640 and 29·351" *read* "29·490, 29·450, 29·644 and 29·355" respectively.
cxlviii	Ditto	„	Tehran	Temperature	14	*For* "12·5" *read* "—12·5".
cliii	Ditto	C	Hailakandi	Ditto	6, 7, 8, 9 and 10	*For* "75·3, +0·4, 83·7, +1·5 and 16·7" *read* "75·1, +0·2, 83·5, +1·3 and 16·9" respectively.
clv	Ditto	„	Foot note	.....	...	*For* "*Since 1s June 1916" *read* "* Rainfall since 1st June 1916".
clxiii	July 1916	B	United Provinces	Rainfall	18, 19 and 20	*Insert* "12·56, 11·74 and +0·82".
„	Ditto	„	Mysore	Wind	11	*For* "+13" *read* "—13".
clxv	Ditto	„	Toungoo	Wind velocity	37	*For* "—0·4" *read* "—1·4".
clxvi	Ditto	„	Ranchi	Temperature	20	*For* "89·" *read* "89·7".
„	Ditto	„	Foot note	.....	...	*For* "Mean of 30 days" *read* "* Mean of 30 days".
clxvii	Ditto	„	Calcutta	Wind direction	30	*Insert* "15".
„	Ditto	„	Jessore	Ditto	28 and 29	*Insert* "6 and 6" respectively.
„	Ditto	„	Berhampore	Ditto	29	*For* "1" *read* "13".
„	Ditto	„	Purnea	Rainfall	51 and 53	*For* "46·51 and 16·83" *read* "46·57 and 16·89" respectively.

Corrigenda in the India Monthly Weather Reviews for the year 1916—*contd.*

TABLES A, B and C.—*contd.*

Page.	Part.	Table.	Meteorological Province or station.	Heading.	Column No.	Correction.
clxvii	July 1916	B	Pusa	Wind velocity	35	*For* "2·9" *read* "2·5†."
,,	Ditto	,,	Foot note	...	.....	*Insert* "† Mean of 29 days."
,,	Ditto	,,	Mainpuri	Wind direction	24	*Insert* "7."
clxviii	Ditto	,,	Patiala	Temperature	15, 16, 17, 18 and 19.	*For* "79·2, — 0·3, 86·5, — 0·5 and 14·6" *read* "78·8, — 0·7, 86·3, — 0·7 and 15·0" respectively.
,,	Ditto	,,	Karwar	Ditto	21	*For* "2nd" *read* "22nd."
clxix	Ditto	,,	Bombay	Rainfall	51 and 53	*For* "46·28 and + 1·92" *read* "46·31 and + 1·95" respectively.
clxx	Ditto	,,	Ahmadnagar	Pressure	7	*For* "27·72" *read* "27·723."
,,	Ditto	,,	Bidar	Temperature	13, 14 and 19	*For* "83·7, — 2·1 and 13·3" *read* "83·3, — 2·0 and 13·4" respectively.
,,	Ditto	,,	Gulbarga	Ditto	11	*For* "7·3" *read* "74·3."
clxxi	Ditto	,,	Sutna	Wind velocity and Rainfall.	36 and 54	*For* "·7 and 1·06" *read* "6·7 and 1·66" respectively.
,,	Ditto	,,	Bidar	Wind velocity	35	*For* "7·9" *read* "7·5*".
,,	Ditto	,,	Foot note	...	...	*Insert* "* Mean of 29 days."
clxxiii	Ditto	,,	Trivandrum	Rainfall	51 and 53	*For* "26·20 and — 2·69" *read* "26·21 and — 2·59" respectively.
,,	Ditto	,,	Cocanada	Wind direction	26	*For* "0" *read* "2."
clxxiv	Ditto	,,	Quetta	Temperature	22	*For* "5·7" *read* "57·7."
,,	Ditto	,,	Murree	Ditto	22	*For* "5·1" *read* "52·1."
clxxvii	Ditto	,,	Jask	Wind direction	25	*Insert* "0."
cxci	August 1916	,,	Bengal	Rainfall	18, 19 and 20	*Insert* "17·08, 14·39 and + 2·69" respectively.
,,	Ditto	,,	United Provinces	Ditto	18, 19 and 20	*Insert* "14·39, 11·57 and + 2·82" respectively.
,,	Ditto	,,	Madras	Ditto	18 and 20 ...	*For* "7·35 and + 1·07" *read* "7·12 and + 0·84" respectively.
cxcv	Ditto	,,	Purnea	Ditto	51 and 53	*For* "66·66 and + 23·38" *read* "66·72 and + 23·44" respectively.
cxcvii	Ditto	,,	Sub-heading	Ditto	47, 48 and 49	*For* "Normal number of rainy days, Departure from normal, and Rainfall of month" *read* "Departure from normal, Rainfall of month, and Normal rainfall of month" respectively.
cxcviii	Ditto	,,	Deesa	Pressure	6	*For* "29·62" *read* "29·612."
,,	Ditto	,,	Bhuj	Ditto	5	*For* "— ·07" *read* "— ·027."
,,	Ditto	,,	Poona	Ditto	5	*For* "— ·00" *read* "— ·003."
cxcix	Ditto	,,	Bombay	Rainfall	51 and 53	*For* "65·79 and + 7·24" *read* "65·82 and + 7·27" respectively.
,,	Ditto	,,	Amraoti	Hygrometry	42	*For* "·77" *read* "·777".
,,	Ditto	,,	Khandwa	Wind direction	32	*Insert* "2."
cci	Ditto	,,	Raipur	Wind direction and Wind velocity.	34, 36 and 37	*For* "S 76° W, 4·1 and + 1·5" *read* "S 56° W, 6·1 and —0·5" respectively.

Corrigenda in the India Monthly Weather Reviews for the year 1916—*concld.*

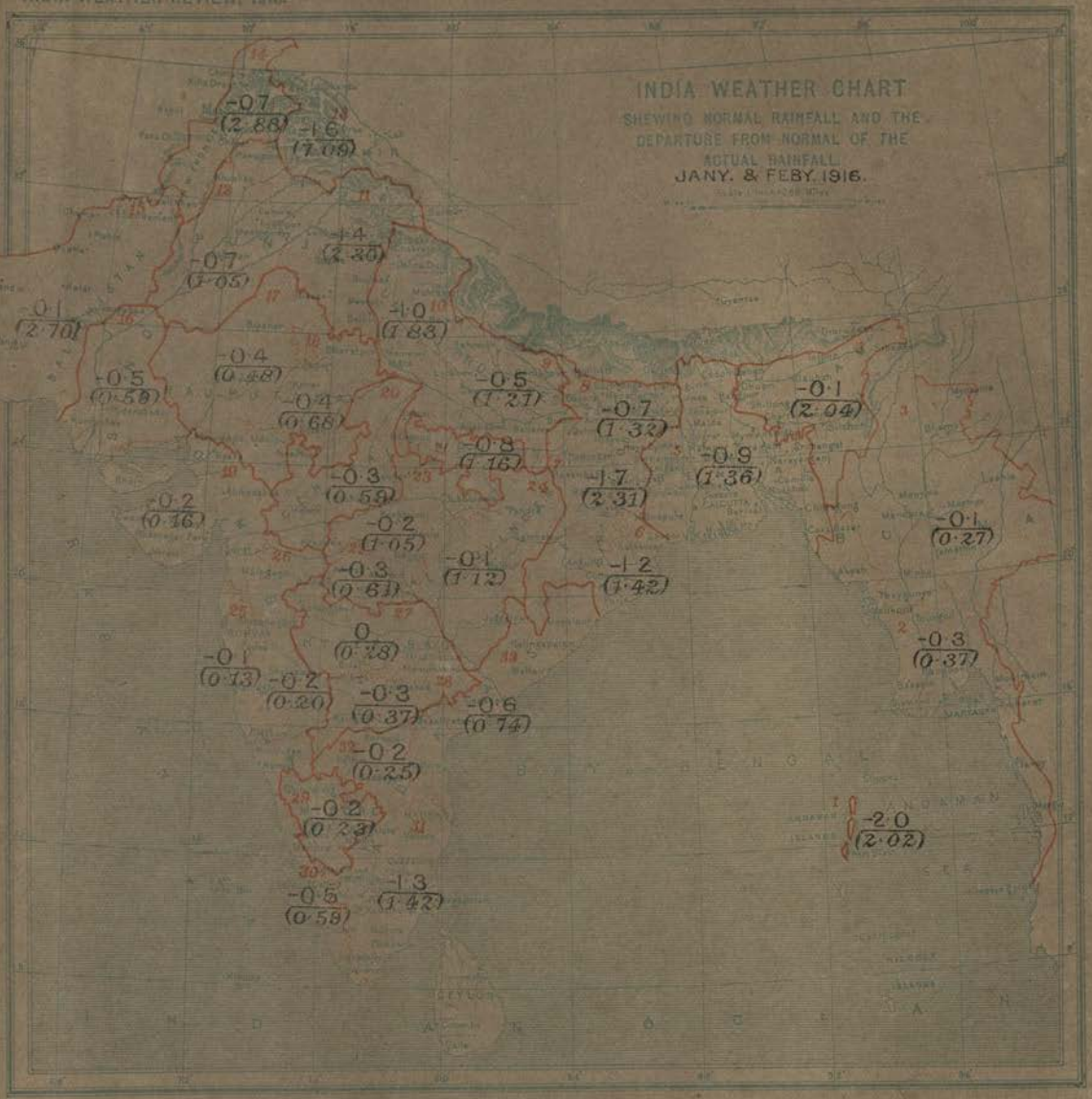
TABLES A, B & C.—*concld.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
cci	August 1916	B	Chanda	Wind direction and Wind velocity.	34, 36 and 37	*Insert* " S 76° W, 4·1 and + 1·3 " respectively.
"	Ditto	"	Trivandrum	Rainfall	51 and 53	*For* " 28·65 and —4·24 " *read* " 28·66 and —4·23 " respectively.
cciii	Ditto	"	Kurnool	Wind velocity	36 and 37	*Omit* figures.
"	Ditto	"	Nellore	Ditto	36 and 37	*For* " 5·6 and —1·5 " *read* " 6·9 and —2·8 " respectively.
"	Ditto	"	Cocanada	Ditto	36 and 37	*Insert* " 5·6 and +0·9 " respectively.
ccxiii	Ditto	C	Pemba	Rainfall	45	*For* " 11·70 " *read* " —11·70."
ccxlv	October 1916	A	Calcutta	Vapour tension	26	*For* "·89" *read* "·889."
ccxlvii	Ditto	B	Burma	Rainfall	19 and 20	*For* " 6·34 and + 0·57 " *read* " 6·30 and + 0·61 " respectively.
ccxlix	Ditto	"	Victoria Point	Ditto	48 and 51	*For* " 12·90 and 126·93 " *read* " 12·80 and 126·83 " respectively.
ccl	Ditto	"	Foot note	...	...	*For* " * Mean of 2 days " *read* " * Mean of 20 days."
ccli	Ditto	"	Purnea	Rainfall	51 and 53	*For* " 85·27 and + 26·35 " *read* " 85·23 and + 26·31 " respectively.
ccliii	Ditto	"	Bombay	Ditto	51 and 53	*For* " 85·17 and + 13·94 " *read* " 85·20 and + 13·97 " respectively.
cclvii	Ditto	"	Trivandrum	Ditto	51 and 53	*For* " 50·96 and + 3·75 " *read* " 50·97 and + 3·76 " respectively.
cclix	Ditto	"	Trincomalee	Ditto	48, 50, 51 and 53	*For* " 2·81, —4·80, 17·47 and —4·88 " *read* " 2·91, —4·70, 17·57 and —4·78 " respectively.
"	Ditto	"	Hambantota	Ditto	48, 50, 51 and 53	*For* " 1·51, —3·50, 18·38 and + 2·85 " *read* " 1·46, —3·55, 18·33 and + 2·80 " respectively.
cclxxviii	November 1916	"	Foot note	...	...	*For* " (i) Observation of 25 days " *read* " (i) Mean of 25 days."
ccxciii	Ditto	C	Hazaribagh	Station	47	*For* " Haaribagh " *read* " Hazaribagh."
cccxvi	December 1916	B	Foot note	...	...	*For* " W. = Mean of 1 days " *read* " W = Mean of 11 days."

SGPI 21-4 DGO-11-11-19-335.

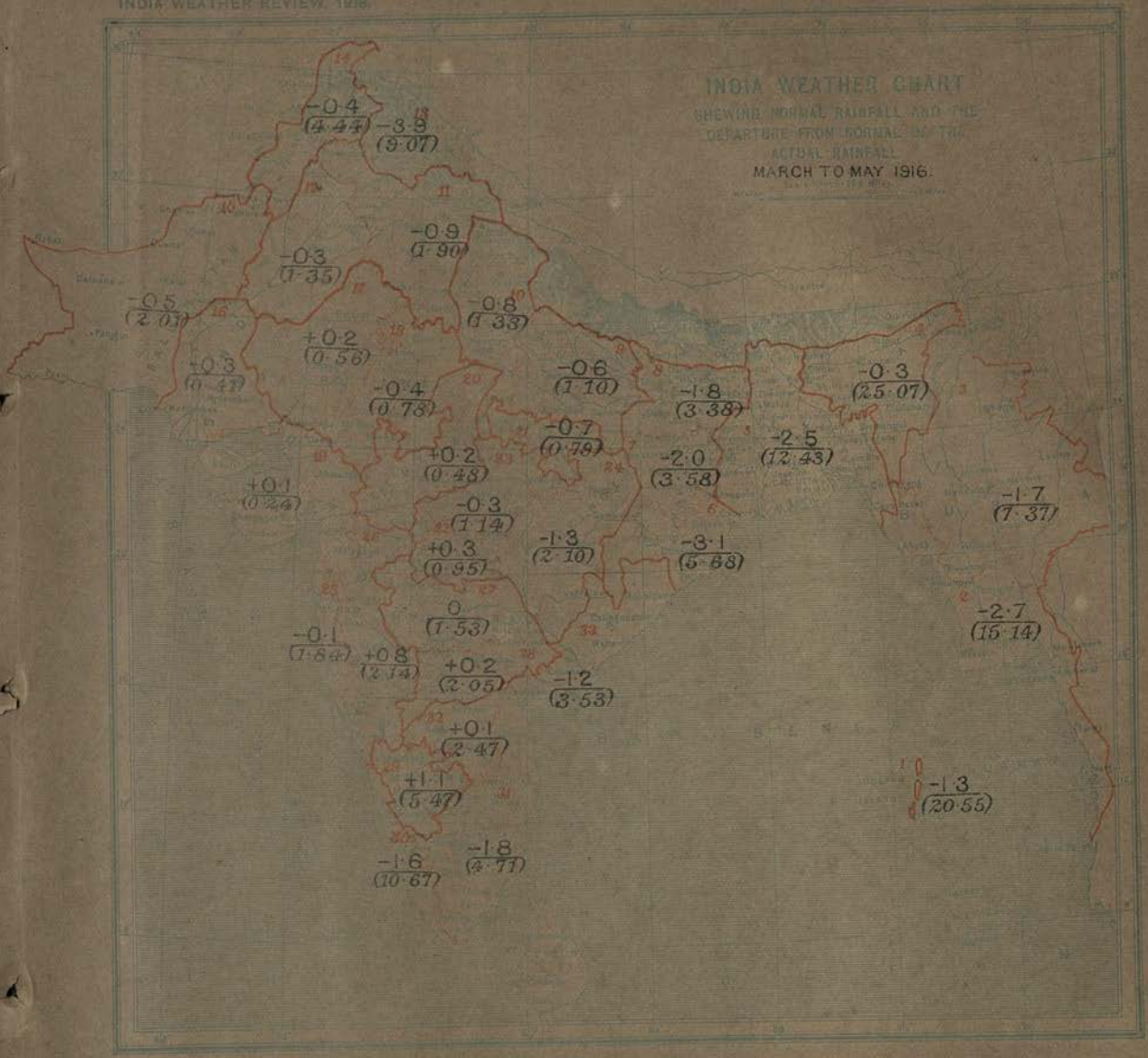
The country is divided into 33 areas as shown in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North



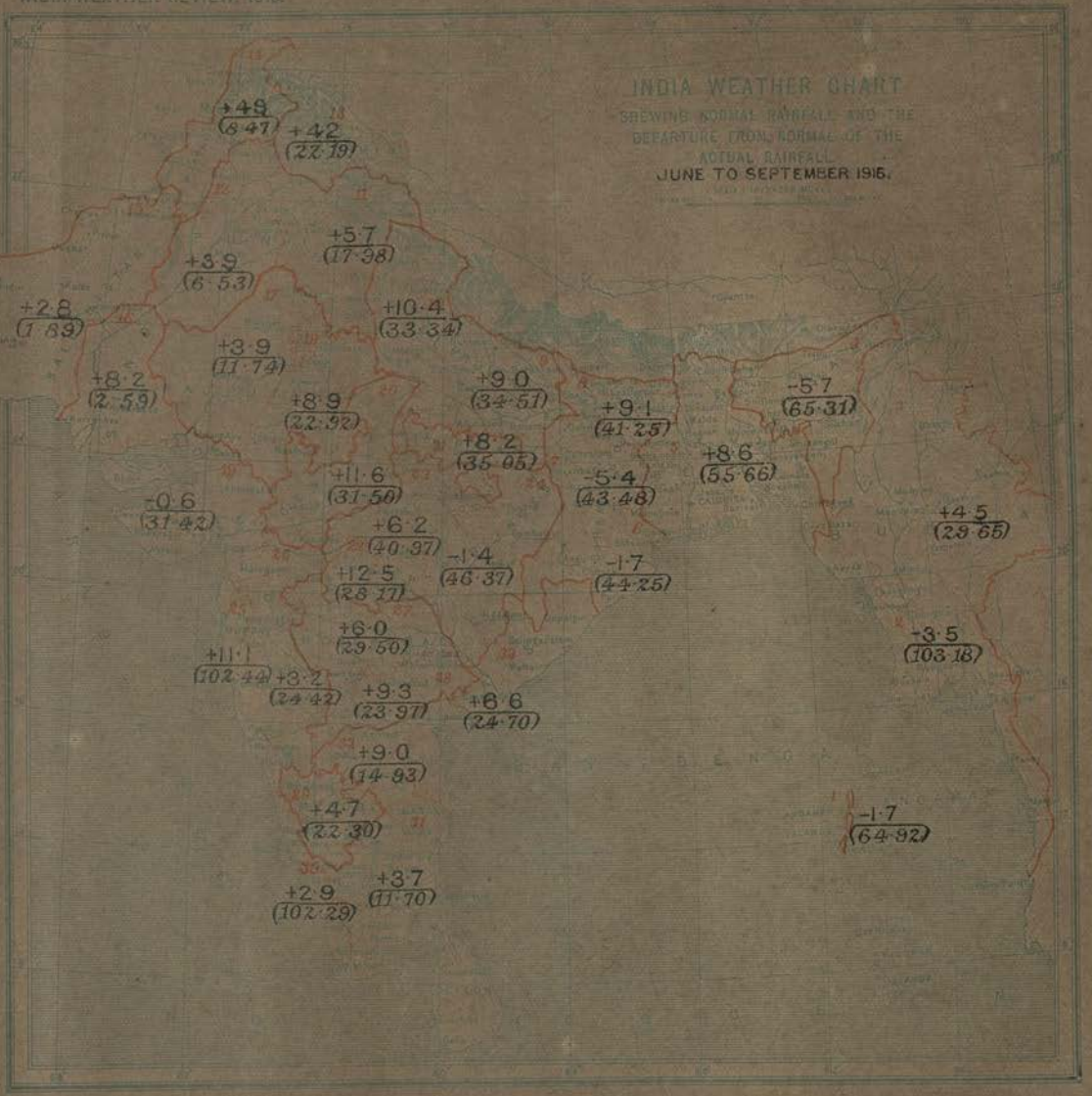
The country is divided into districts as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal rainfall; the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do. Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do. East
22. Berar
23. Central Provinces, West
24. Do. East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North



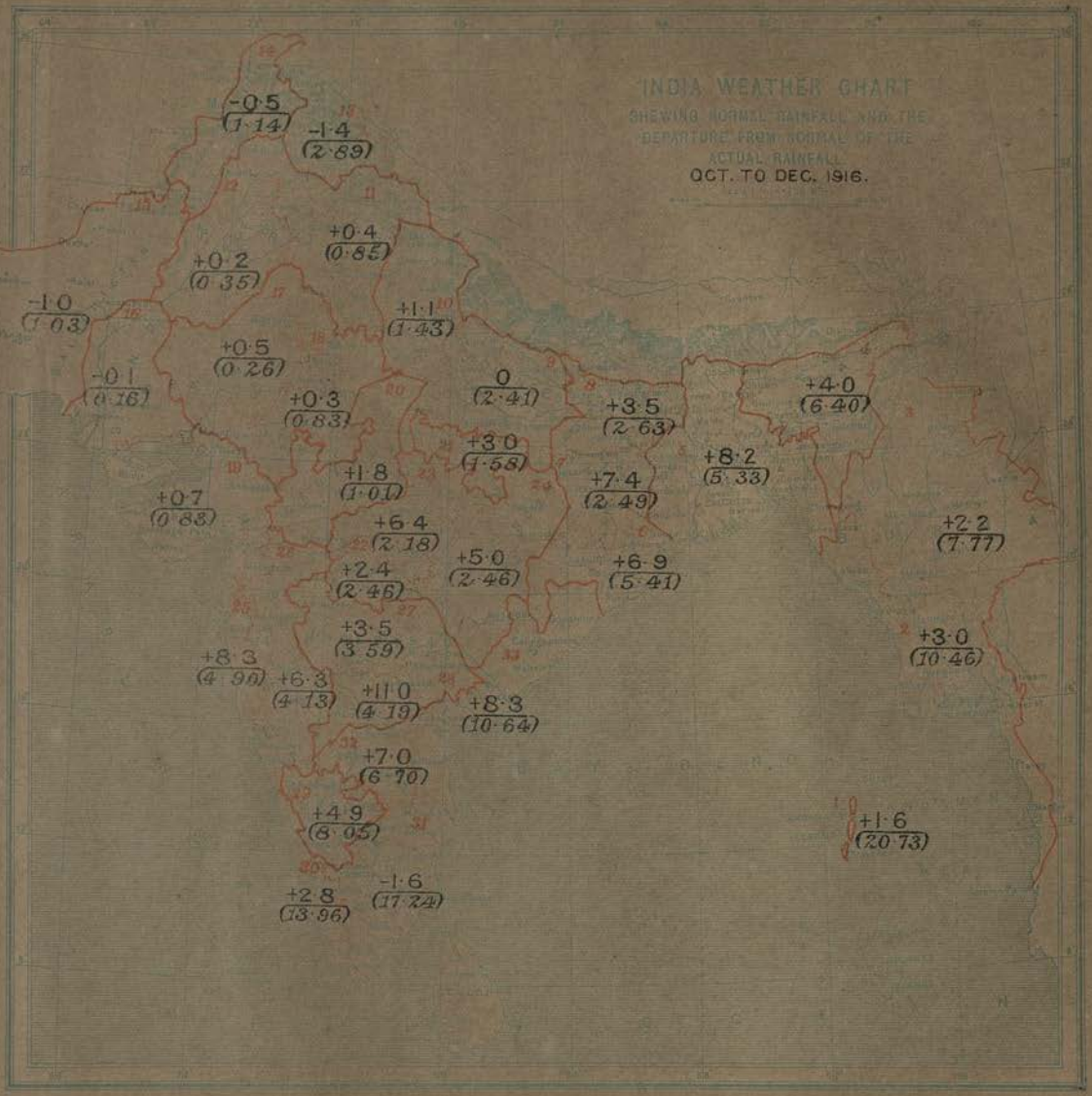
The country is divided into [illegible] as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the [illegible] on the chart give the average over the divisions of the [illegible] rainfall, the numbers above these give the departure from [illegible] of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. [illegible]
13. [illegible]
14. [illegible] Frontier Province
15. [illegible]
16. Sind
17. Baluchistan, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berars
23. Central Province, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras, Coast, North



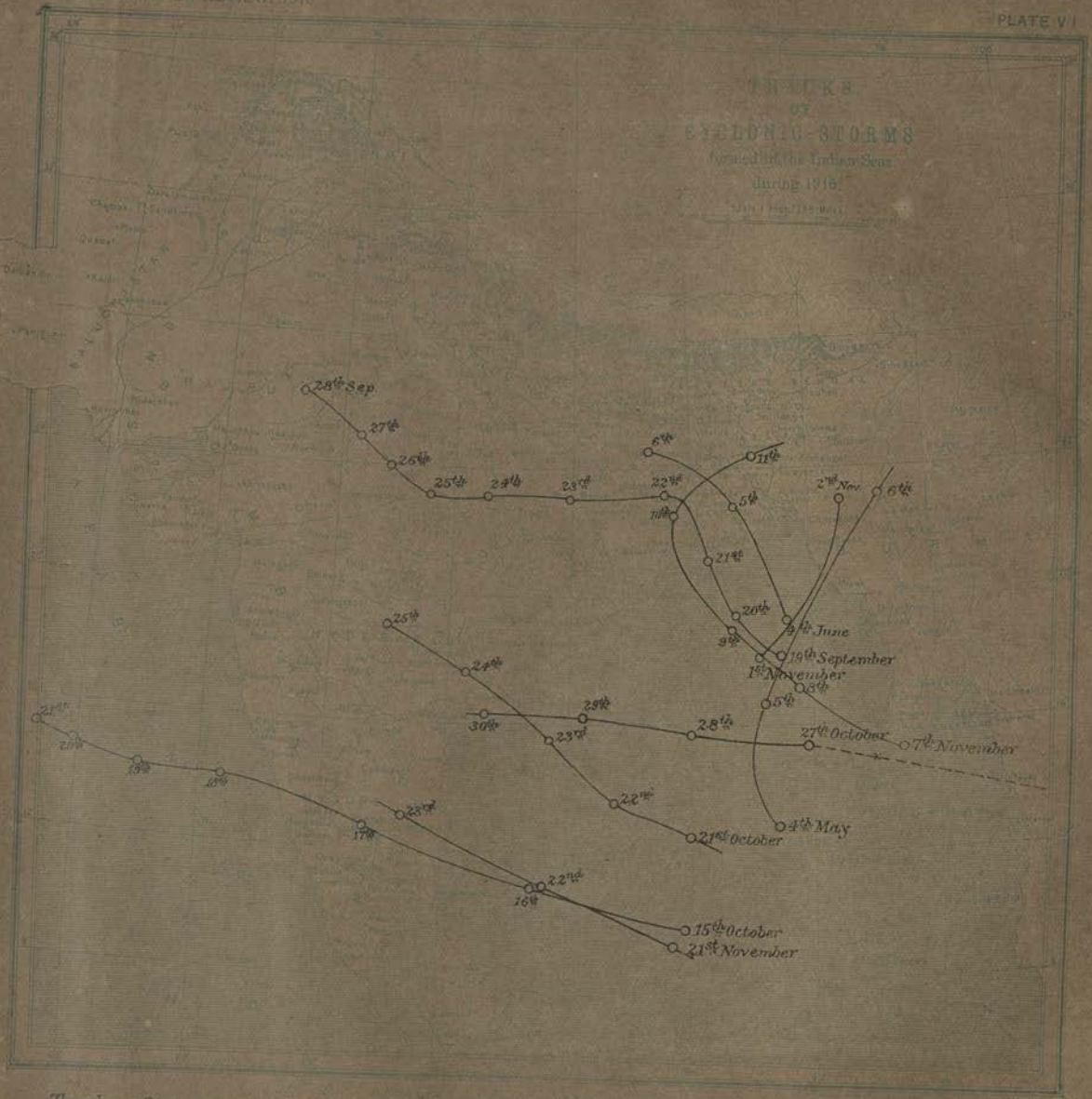
The country is divided into [illegible] as shown in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets in the chart give the average over the divisions of the normal rainfall, the numbers above these give the departures from [illegible] of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Rajputana
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Bombay, West
18. Bombay, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North



The country is divided into [illegible] as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in black [illegible] the chart give the average over the divisions of the normal rainfall; the numbers above these give the departure of the [illegible] of the [illegible] rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North



Tracks of storms in the Arabian Sea which lie outside the boundaries of the map are defined by the following positions:-

Storm of May 25th to 28th

	Lat. N.	Long. E.
25th May	12°	62°
26th "	13°	61°
27th "	16½°	57°

Storm of October 15th to 24th

	Lat. N.	Long. E.
22nd October	16½°	63½°
23rd "	17°	61°
24th "	17½°	59½°

(This list of publications is intended for permanent reference, and should be bound up with the Annual Summary.)

Publications of the India Meteorological Department.

(Complete list, inclusive of those publications which are now out of print.)

PUBLICATIONS OF THE INDIA METEOROLOGICAL DEPARTMENT.

The following is a list of the more important publications of the India Meteorological Department:—

The Indian Meteorologist's *Vade Mecum*, Part I, 2nd Edition. (1883) . . . . . Price Rs. 3*	Henry F. Blanford.
The Indian Meteorologist's *Vade Mecum*, Part II. (1877) . . . . . Price Rs. 5*	Ditto.
Instructions to Observers of the India Meteorological Department, 2nd Edition. (1902) . . . . . Price Rs. 3	Sir John Eliot.
Tables for the reduction of Meteorological Observations in India. 2nd Edition. (1889) . . . . . Price Rs. 2*	Henry F. Blanford.
Handbook of Cyclonic storms in the Bay of Bengal for the use of sailors, 2nd Edition, Vol. I.—Text. (1900) . Price Rs. 4	Sir John Eliot.
Handbook of Cyclonic storms in the Bay of Bengal for the use of sailors, 2nd Edition, Vol. II.—Plates. (1901) . Price Rs. 1-8	Ditto.
Cyclone Memoirs, Part I—Bay of Bengal Cyclone of May 20th to 28th, 1887. (1888) . . . . . Price Re. 1*	Ditto.
Cyclone Memoirs, Part II—Bay of Bengal Cyclone of August 21st to 28th, 1888. (1890) . . . . . Price Rs. 3	Ditto.
Cyclone Memoirs, Part III—Bay of Bengal Cyclones of September 13th to 20th, and October 27th to 31st, 1888, and Arabian Sea Cyclone of November 6th to 9th, 1888. (1890) Price Rs. 5	Ditto.
Cyclone Memoirs, Part IV—An enquiry into the nature and course of storms in the Arabian Sea and a catalogue and brief history of all recorded storms in the Arabian Sea from 1848—1889. (1891) . . . . . Price Rs. 3.	W. L. Dallas.
Cyclone Memoirs, Part V—Account of three Cyclones in the Bay of Bengal and Arabian Sea during November, 1891. (1893) . . . . . Price Rs. 3*	Sir John Eliot.
Report of the Midnapore and Burdwan Cyclone of the 15th and 16th of October, 1874. (1875) . . . Price Rs. 3*	W. G. Wilson.
Report of the Vizagapatam and Backergunge Cyclones of October, 1876. (1877) . . . . . Price Rs. 3*	Sir John Eliot.
Report on the Madras Cyclone of May 1877. (1879) Price Rs. 3*	Ditto.
Monthly weather charts of the Bay of Bengal and adjacent sea north of the equator, showing mean pressure, winds and currents. (1886) . . . . . Price Rs. 5*	Henry F. Blanford.
Monthly weather charts of the Arabian Sea and the adjacent portion of the North Indian Ocean, showing mean pressure, winds and currents. (1888) . . . Price Rs. 5	Sir John Eliot.
Charts of the Bay of Bengal and adjacent sea north of the equator, showing the specific gravity, temperature and currents of the sea surface. (1887) . . Price Rs. 1-8	W. L. Dallas.
Climatological Atlas of India (1906). Price Rs. 27 or 36 shillings	Sir John Eliot.
Meteorological Atlas of the Indian seas and the north Indian Ocean. (1908) . . Price Rs. 13 or 17 shillings 6 pence	W. L. Dallas.
Daily weather reports and charts of the Indian monsoon area for the years 1893 to 1899. . Price, each month, Re. 1*	Departmental.
Normal weather or pilot charts of the Indian monsoon area for 8 A.M. for each month, November, 1900 to August, 1908 † Price, each month, Annas 4	Ditto.
Reports on the Meteorology of India for the years 1875—1890 (16 volumes)‡ . . . . . Price each Rs. 10	Ditto.
Indian Meteorological Memoirs, Vol. I, containing:—	
Part I. On the winds of Calcutta—An analysis of 10 years' hourly observations of the wind vane and four years' anemograms.	Henry F. Blanford.
The meteorology and climate of Yarkhand and Kashgar, being chiefly a discussion of registers kept by Dr. J. Scully in 1874-75.	
The diurnal variation of the barometer at Simla. Price Rs. 3*	
Part II. Storms in Bengal during the year 1876, accompanied with increased atmospheric pressure and the apparent reversal of the normal diurnal oscillation of the barometer.	Sir John Eliot.
On the rainfall of Benares considered in relation to the prevailing winds.	S. A. Hill.
On the diurnal variation of the barometer at Indian stations, Part I; Calcutta and Hazaribagh . . . Price Rs. 3*	Henry F. Blanford.
Part III. Variation of rainfall in Northern India . .	S. A. Hill.
Meteorological and hypsometrical observations in Western Tibet, recorded by Dr. J. Scully, with a discussion . . Price Rs. 3	Henry F. Blanford.
Part IV. The winds of Kurrachee . . . Price Rs. 3	Fred. Chambers.
Part V. Some results of the meteorological observations taken at Allahabad during the ten years 1870—79.	S. A. Hill.
The diurnal variation of the barometer at Indian stations, Part II, Goalpara, Patna and Leh . . Price Rs. 3*	Henry F. Blanford.
Part VI. The Meteorology of the North-West Himalaya. Price Re. 1	S. A. Hill.
Indian Meteorological Memoirs, Vol. II, containing:—	
Part I. Account of the south-west monsoon storm of the 18th to the 24th of September, 1878, in the north of the Bay of Bengal.	Sir John Eliot.
List of cyclones on the West Coast of India and in the Arabian Sea up to the end of year 1881 . . . Price Rs. 2	Fred. Chambers.
Part II. Note on the foregoing list of cyclones and on the Gujarat land cyclone of July 11th to 13th, 1881 . .	Henry F. Blanford.
On the temperature of North-Western India . Price Rs. 2	S. A. Hill.
Part III. Account of the south-west monsoon storms of the 8th to the 19th October, 1882, in the Bay of Bengal . Price Rs. 2	Sir John Eliot.
Part IV. Account of the south-west monsoon storms generated in the Bay of Bengal during the years 1877 to 1881 . . Price Rs. 2	Ditto.
Part V. Observations of temperature and humidity at a height of 40 feet above the ground at Alipore Observatory, Calcutta. Price Re. 1	S. A. Hill.
Indian Meteorological Memoirs, Vol. III., containing a full discussion of the rainfall of India and cognate subjects, complete in 4 parts. Price, each part, Rs. 2*	Henry F. Blanford.
Indian Meteorological Memoirs, Vol. IV, containing:—	
Part I. Account of the south-west monsoon storm of the 12th to the 17th of May, 1884, in the Bay of Bengal and at Akyab.	Sir John Eliot.
On the diurnal variation of the rainfall at Calcutta .	Henry F. Blanford.
The meteorological features of the southern part of the Bay of Bengal . . . . . Price Rs. 3*	W. L. Dallas.
Part II. The False Point cyclone of September 22nd, 1885. Price Rs. 2*	Sir Alexander Pedler.
Part III. On the ground temperature observations made at the old observatory, Allahabad . . . Price Rs. 1-8*	S. A. Hill.
Part IV. List and brief account of the south-west monsoon storms generated in the Bay of Bengal during the years 1882 to 1886. . . . . Price Rs. 3*	Sir John Eliot.
Part V. The cyclonic storms of November and December, 1886, in the Bay of Bengal.	Ditto.
The cyclone of the 25th May to the 2nd June, 1881, in the Arabian Sea . . . . . Price Rs. 3*	Fred. Chambers.
Part VI. On temperature and humidity observations made at Allahabad at various heights above the ground. Price Rs. 1-8*	S. A. Hill.
Part VII. The Arabian Sea cyclone of the 4th to the 13th June, 1887	Fred. Chambers.
On the Meteorology and Climatology of Northern Afghanistan Price Rs. 1-8*	W. L. Dallas.
Part VIII. An account of the more important cold weather storms in India during the years 1876 to 1891. Price Rs. 3*	Sir John Eliot.

* Copies of publications to the price of which an asterisk is appended are out of print.
† Copies for May and July 1902 are out of print.
‡ Copies for the years 1876, 1878 to 1881, 1884, 1887 and 1890 are out of print.

Continued on page 2 of this list.

Indian Meteorological Memoirs, Vol. V, containing :—

The discussion of the hourly observations made at Sibsagar, Goalpara, Patna, Hazaribagh, Dhubri, Roorkee, Allahabad, Lucknow, Agra, Leh, Deesa, Kurrachee and Lahore and at Simla. Complete in 10 parts . . Price, each part, Re. 1*	Parts I—VII, Henry F. Blanford. Parts VIII—X, Sir John Eliot.

Indian Meteorological Memoirs, Vol. VI, containing :—

Part I. The relation between sunspots and weather as shown by meteorological observations taken on board ships in the Bay of Bengal during the years 1856 to 1879.	W. L. Dallas.
Investigation into the mean temperature, humidity and vapour tension conditions of the Arabian Sea and Persian Gulf Price Rs. 2*	Ditto.
Part II. A preliminary discussion of certain oscillatory changes of pressure of long period and of short period in India. Price Re. 1*	Sir John Eliot.
Part III. The hot winds of Northern India	Ditto.
An account of a storm developed in equatorial regions . . Price Rs. 2*	W. L. Dallas.
Part IV. Hailstorms in India during the period 1883—1897 with a discussion on their distribution . . Price Re. 1*	Sir John Eliot.
Part V. A discussion of the anemographic observations recorded at Simla during the period September 1893 to August 1896 and at Darjeeling during the period April 1885 to December 1896, and an investigation into the general features of the air movement in the Himalayan mountain area . Price Re. 1*	Ditto.
Part VI. A discussion of the anemographic observations recorded at Darjeeling during the period May 1885 to May 1896 and an investigation into the general features of the air movement in the Sikkim Himalayas . . . . Price Re. 1*	Ditto.
Part VII. A discussion of the thunderstorm observations recorded in 1897 at ten selected stations in India Price Re. 1*	W. L. Dallas.

Indian Meteorological Memoirs, Vol. VII, containing :—

Hourly observations of pressure, temperature, vapour tension, humidity, cloud, wind direction and velocity of wind taken at Trivandrum during the years 1853 to 1864. Complete in 7 parts . . . . . Price, each part, Rs. 1-8	Sir John Eliot.

Indian Meteorological Memoirs, Vol. VIII, containing :—

Part I. Hourly meteorological observations recorded at the Agustia observatory during the period from January 1856 to September 1858 and from June to December 1864. Price Rs. 2	Ditto.
Part II. Hourly comparative meteorological observations taken at Trivandrum, Vannatheertham (eastern station), Kalliad (western station) and Agustia for the periods 23rd March to 20th April 1857, 20th January to 19th February 1859, 9th September to 8th October 1864 and 2nd to 28th January 1865, also at Cape Comorin from 23rd September to 13th November 1858 and at Charatha and Kamala from 20th January to 19th February 1859 . . Price Re. 1	Ditto.

Indian Meteorological Memoirs, Vol. IX, containing :—

The diurnal variation of atmospheric conditions at Chittagong, Cuttack, Jubbulpore, Pachmarhi, Nagpur, Poona, Belgaum, Bellary, Trichinopoly, Rangoon, Aden, Alipore and Jaipur. Complete in 9 parts . . . Price, each part, Rs. 1-8*	Part I, Henry F. Blanford. Parts II—VII, Sir John Eliot. Part VIII, Douglas Archibald. Part IX, Sir John Eliot.

Indian Meteorological Memoirs, Vol. X, containing :—

Part I. The discussion of the hourly meteorological observations recorded at Trivandrum during the years 1853—1864. Price Rs. 3	Sir John Eliot.
Part II. The discussion of the hourly meteorological observations recorded at Agustia during the years 1856—1858 and 1864 . . . . . Price Rs. 2	Ditto.
Part III. Discussion of the comparative hourly meteorological observations recorded at Trivandrum, Kalliad, Vannatheertham and Agustia for the periods 23rd March to 20th April 1857, 20th January to 19th February 1859, 9th September to 8th October 1864 and 2nd to 28th January 1865, and at Charatha, and Kamala from 20th January to 19th February 1859. Price Rs. 2*	Ditto.
Part IV. Plates I to LVII, title-page, table of contents and corrigenda of Volume X, Parts I, II and III of the Indian Meteorological Memoirs . . . . . Price Rs. 3	Ditto.

Indian Meteorological Memoirs, Vol. XI, containing :—

Part I. Observations recorded during the solar eclipses of 22nd January 1898, at 154 meteorological stations in India. Price Re. 1*	Sir John Eliot.
Part II. A discussion of the observations recorded during the solar eclipse of 22nd January 1898, at 154 meteorological stations in India . . . . . Price Rs. 3*	Ditto.
Part III. Report on cloud observations and measurements in the plains of the North-Western Provinces of India during the period December 1898 to March 1900 . Price Re. 1*	E. G. Hill.

Indian Meteorological Memoirs, Vol. XII, containing :—

Part I. A discussion on the failure of the south-west monsoon rains in 1899 . . . . . Price Re. 1*	W. L. Dallas.
Part II. A discussion of the results of the hourly observations recorded at 29 stations in India given in Volumes V, IX and X of the Indian Meteorological Memoirs . . Price Rs. 3*	Sir John Eliot.
Part III. Discussion of the results of the hourly observations recorded at 29 stations in India given in Volumes V, IX and X of the Indian Meteorological Memoirs (Final chapter and plates) . . . . . Price Rs. 3*	Ditto.
Part IV. A Meteorological history of the seven monsoon seasons, 1893—1899, in relation to the Indian rainfall . . Price Rs. 3*	W. L. Dallas.

Indian Meteorological Memoirs, Vol. XIII, containing :—

Daily normals of maximum temperature, minimum temperature, 8 A. M. air pressure reduced to 32° F. and rainfall and five-day means of normal cloud amount, relative humidity and aqueous vapour pressure at 8 A. M. . . Price Rs. 5*	Sir John Eliot.

Indian Meteorological Memoirs, Vol. XIV, containing :—

Monthly and annual rainfall of 457 stations in India to the end of 1900 . . . . . Price Rs. 3*	Ditto.

Indian Meteorological Memoirs, Vol. XV, containing :—

Part I. Summary and a brief discussion of observations of the clouds recorded at six stations in India during the period 1895—1900 . . . . . Price Re. 1*	Ditto.
Part II. Report on cloud observations and measurements at Simla during the period June 1900 to January 1902 Price Re. 1*	W. L. Dallas.
Part III. Discussion of monthly mean surface and underground temperatures, deduced from observations taken at Lahore, Jaipur, Dehra Dun, Allahabad and Calcutta during the years 1880—1901 . . . . . Price Re. 1*	R. Ll. Jones.

Indian Meteorological Memoirs, Vol. XVI, containing :—

Part I. Monthly means of air-pressure reduced to 32° F. and constant gravity, Lat. 45° . . . Price Rs. 3*	Sir John Eliot.
Part II. A preliminary investigation of the more important features of the Meteorology of Southern Asia, the Indian Ocean and neighbouring countries during the period 1892—1902, with Appendices . . . . . Price Rs. 3	Ditto.

Indian Meteorological Memoirs, Vol. XVII, containing :—

Normal monthly and annual means of temperature, pressure, wind, humidity, cloud, rainfall and number of rainy days of stations in India, etc. . . . . Price Rs. 3	Ditto.

Memoirs of the Indian Meteorological Department, Vol. XVIII, containing :—

Part I. A discussion of the anemographic observations recorded at Rangoon from June 1878 to October 1901 and at Chittagong from June 1879 to December 1896. Price Rs. 2	Ditto.
Part II. A discussion of the anemographic observations recorded at Saugor Island from March 1880 to February 1904, and at Alipore (Calcutta) from March 1877 to February 1904 . . . . . Price Rs. 2	Ditto.
Part III. A discussion of the anemographic observations recorded at Allahabad from September 1890 to August 1904 and at Lucknow from July 1878 to October 1892 . Price Rs. 2	Ditto.
Part IV. A discussion of the anemographic observations recorded at Roorkee from September 1879 to August 1904; at Lahore from June 1889 to May 1905; and at Mussooree from May to October 1877—1888 . . Price Rs. 2	Ditto.

* Copies of publications to the price of which an asterisk is appended are out of print.

Continued on page 4 of this list.

Memoirs of the Indian Meteorological Department, Vol. XIX, containing :—	
Parts I and II. A discussion of the anemographic observations recorded at Pachmarhi from September 1883 to April 1887, and at Nagpur from January 1882 to December 1902 Price Rs. 2	Sir John Eliot
Parts III and IV. A discussion of the anemographic observations recorded at Port Blair from September 1894 to August 1904	W. A. Harwood.
A discussion of the anemographic observations recorded at Dhubri from November 1889 to May 1896 . Price Rs. 1-8	Ditto.
Parts V and VI. A discussion of the anemographic observations recorded at Jubbulpore from May 1889 to April 1900 .	
A discussion of the anemographic observations recorded at Belgaum from May 1881 to April 1904 . Price Rs. 1-8	
Parts VII and VIII. A discussion of the anemographic observations recorded at Deesa from January 1879 to December 1904	Ditto.
A discussion of the anemographic observations recorded at Karachi from January 1873 to December 1894. . Price Rs. 1-8	
Memoirs of the Indian Meteorological Department, Vol. XX, containing :—	
Part I. An account of the preparations made for determining the conditions of the upper air in India by means of kites. Price Re. 1*	J. H. Field.
Part II. Kite flights made at Belgaum during the premonsoon and monsoon periods in 1906 . . . . Price Re. 1	Ditto.
Part III. The Simla seismograms obtained between June 1905 and November 1908 . . . . . Price Rs. 2	J. Patterson.
Part IV. A discussion of types of weather in Madras. Price Re. 1	R. Ll. Jones.
Part V. A discussion of some of the anemographic observations recorded at Madras. . . . . Price Re. 1	Ditto.
Part VI. Correlation in seasonal variation of climate (introduction) . . . . . Price Re. 1	Gilbert T. Walker.
Part VII. Kite flights in India and over the neighbouring sea areas during 1907 . . . . . Price Re. 1	J. H. Field.
Part VIII. On the electricity of rain and its origin in thunderstorms . . . . . Price Rs. 3	George C. Simpson.
Memoirs of the Indian Meteorological Department, Vol. XXI, containing :—	
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* Copies of publications to the price of which an asterisk is appended are out of print.
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‡ Published continuously about four months after date. Copies for 1891-97, January 1898, and January 1899 to May 1902, 1903 and January and March 1904, are out of print.
‖ Volumes for 1914 to 1917 are out of print.
§ These prices include postage in India.

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

THE INDIA WEATHER REVIEW

FOR THE YEAR

1920

Published by Authority of the Government of India

UNDER THE DIRECTION OF

GILBERT T. WALKER, C.S.I., M.A., Sc.D., F.R.S.,

Director General of Observatories

CALCUTTA

SUPERINTENDENT GOVERNMENT PRINTING, INDIA

1923

ANNUAL SUMMARY, 1920.

INTRODUCTION.

THE present account of the meteorology of 1920 is based on revised data and is intended primarily for scientific reference; for those needing prompt information the Annual Supplement to the India Daily Weather Report was issued on January 13, 1921.

Several systems of territorial division of India have come into use from time to time for meteorological purposes, each having been adopted to meet the needs of some particular set of data. A certain amount of confusion had been found to result from the consequent want of uniformity of boundaries, and, with a view of obviating the inconvenience caused, the Government of India in 1907 authorised the adoption of the following system of division :—

Chief political divisions.	Sub-divisions.
Burma	Bay Islands.
	Lower Burma.
	Upper Burma.
Eastern Bengal and Assam	Assam.
	Eastern Bengal.
Bengal	Bengal.
	Orissa.
	Chota Nagpur.
	Bihar.
United Provinces	United Provinces, East.
	United Provinces, West.
Punjab	Punjab, East and North.
	Punjab, Southwest.
North-West Frontier Province	North-West Frontier Province.
	Baluchistan.
Sind	Sind.
Rajputana	Rajputana, West.
	Rajputana, East.
Bombay	Gujarat.
	Konkan.
	Bombay Deccan.
Central India	Central India, West.
	Central India, East.
Central Provinces	Berar.
	Central Provinces, West.
	Central Provinces, East.
Hyderabad	Hyderabad, North.
	Hyderabad, South.
Mysore	Mysore.
Madras	Malabar.
	Madras, Southeast.
	Madras Deccan.
	Madras Coast, North.

From the 1st April 1912 a fresh territorial division of Eastern Bengal and Assam and Bengal was sanctioned by which Eastern Bengal was restored to Bengal, while Orissa, Chota Nagpur and Bihar were constituted into a separate province under the name of Bihar and Orissa. The present arrangement is shown below :—

Chief political divisions.	Sub-divisions.
Assam	Assam.
Benga.	Bengal.
Bihar and Orissa	Orissa.
	Chota Nagpur.
	Bihar.

In the present review the new division has been adopted throughout.

The system of division is illustrated in Plate I at the end of this Annual Summary, and its relationship to the old system of divisions which was adopted for the tables of the 'Geographical Summary,' given in former issues can be obtained by reference to pages 9 to 14 of Volume III of the Indian Meteorological Memoirs.

The data of Table B in the monthly reviews and in the present annual part are obtained, with a few exceptions, from the observations telegraphed daily to Simla for publication in the Daily Weather Report. The maximum and minimum temperature data of the second class observatories derived from these telegraphic reports and given in Table B, occasionally differ to some slight extent from the corresponding means in Table A. The chief reason for this is that in Table B the daily or 24-hour period is assumed to end at 8 hrs. and in Table A at midnight [except for rainfall the period of which ends at 8 hours], and hence the maximum temperature in Table B for any month of 31 days at any station gives the mean for 31 periods of 24 hours ending at 8 hours of the 31st and in Table A for the same number of 24-hour periods ending at midnight on the 31st, and virtually, therefore, of a monthly period one day in advance of the former. Similarly for months of 28, 29 or 30 days.

Annual Summary.

General summary of weather conditions.—The usual winter precipitation in northwest India was lighter than usual in the two months of the cold weather; but in January the Peninsula had abundant rain through a late persistance of the monsoon in the Indian seas, and in February Lower Burma, Assam and Bengal had an excess of rainfall. In north-east India rainfall continued in excess also in March, this month being in fact the wettest on record there. April was abnormally dry over the greater part of the country, while in May there was a general deficiency of rain except in north-west India. The Arabian Sea monsoon appeared on the west coast on the 2nd June, which is about the usual time, but did not penetrate effectively into the interior of the Peninsula till the 19th owing to the formation of a storm in the Arabian Sea. The Bay monsoon appeared in north-east India in the second week of June and extended into the United Provinces on the 21st. There was a break in their activity at the end of June, but they remained fairly vigorous throughout July. The Arabian Sea current weakened in August and did not materially improve thereafter. The Bay current on the other hand continued normally active. The total rainfall of the monsoon season was normal in Burma, north-east India and Madras, and below normal over the rest of the country. In the retreating monsoon period, the monsoon was weak in October except locally in the coast districts of the Bay, while in November it was vigorous but confined to the south of the Peninsula. December was rainless or almost so over the greater part of the country. Taking the year as a whole rainfall was in excess in south Madras, normal in Burma and north-east India and in defect over the rest of the country. Averaged over the plains the total rainfall of the year was in slight defect.

Two storms occurred in the Arabian Sea and one in the Bay during the year.

The distribution of cloud agreed generally with that of rainfall. Humidity was in defect in Hyderabad and the Central Provinces. Temperature did not differ appreciably from the normal.

SOLAR AND MAGNETIC ACTIVITY.

REPORT FROM KODAIKANAL OBSERVATORY.

Summary of sunspot and prominence observations.

9. *Sunspots.*—The following table shows the monthly numbers of new groups observed at Kodaikanal, and their distribution between the northern and southern hemispheres. The mean daily numbers of spots visible are also given :—

TABLE 1.

——	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
New groups .	11	19	13	10	18	12	9	9	9	12	7	12	141
North . .	6	9	6	5	12	6	4	5	4	7	4	4	72
South . .	5	10	7	5	6	6	5	4	5	5	3	8	69
Daily numbers	3·9	4·4	2·9	1·4	2·7	2·7	2·3	1·8	2·0	3·5	1·9	2·8	2·6

Compared with the year 1919 there was a decrease of 40 per cent. in the case of new groups. The decrease is much greater in the southern hemisphere than in the northern.

The approximate mean latitude of the spots was 11°·1 in both hemispheres.

An extensive group of spots, which during its first apparition crossed the central meridian on January 1-2, returned no less than five times, and finally disappeared in May. It is noteworthy that the meridian passages were on all occasions associated with magnetic storms. The very great storm of March 22nd and 23rd was one of these and occurred during the fourth meridian passage of the group.

10. *Prominences.*—The mean daily areas in square minutes of arc, derived from the photographic records are as follows:—

TABLE 2.

—	North.	South.	Total.
1920—January to June	1·99	2·34	4·33
„ July to December ...	2·10	2·17	4·27

These figures show a slight increase over those of the previous year. The mean numbers increase from 13·2 for the first half year to 15·9 for the second.

The general distribution in latitude has remained essentially the same as in 1919 notwithstanding some fluctuations in the different zones of activity, and between the northern and southern hemispheres. No large prominences have been observed in the polar regions above latitude 60°.

Metallic prominences were fairly numerous in the sunspot zones, and displacements of the hydrogen lines were also frequent. The displacements towards red again slightly exceed those towards violet at the limb, and on the disc near spots 73 per cent. of the whole number were towards red.

A great eruptive prominence was photographed on December 31, on the west limb. It bore a striking resemblance to the prominence of 1919 May 29 and occupied the same region of latitude, extending from + 5° to — 42° as an immense arch. Between 8h and 10h I.S.T. the prominence reared up to a great height and rapidly faded, the highest parts ascending to 16′ above the limb.

Magnetic observations.—Twenty-eight "great" and 126 "moderate" magnetic storms were registered during the year. The storm commencing March 22, 9h 14m was one of the greatest recorded at Kodaikanal, and during the more violent fluctuations there was considerable disturbance of the Indian Telegraph service. This storm occurred during the meridian passage of a great spot group, and, as mentioned above, magnetic storms were recorded at every meridian passage of the group, that is, during five solar rotations from January 1st to April 18th, at 27 day intervals. Subsequent records show that while the spot disturbance had subsided in May, magnetic storms continued to recur at 27 day intervals during 7 more solar rotations. The storms of April 18th and May 14th were recorded as "great," those of June 11th, July 8th, August 4th and August 30th as "moderate," September 27th as "great," October 24th and November 21st as "moderate."

J. EVERSHED,

Director,

Kodaikanal and Madras Observatories.

Report from the Bombay Observatory.

ALIBAG MAGNETIC RECORD.

The mean values of the magnetic elements obtained from all days in the year 1920 are as follows:—

Mean easterly declination . .	. 0° 20′ 15″
„ Horizontal force . .	. 0·36922 c.g.s.
„ Vertical force . .	. 0·17147 c.g.s.
„ Inclination . . .	. 24° 54′·7

During the year there were 118 calm days, 233 days of small, 13 days of moderate, 1 day of great and 1 day of very great disturbance as against 96 calm days, 248 days of small, 17 days of moderate, 3 days of great and 1 day of very great disturbance in the previous year.

The following table, prepared in accordance with the suggestions made by the International Commission, Terrestrial Magnetism, represents the magnetic character of each day during the year:—

TABLE 3.—*Representing the magnetic character of the day during the year 1920.*

1920. Date.	Month.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	1	0	1	0	1	1	1	0	1	1	1	0
2	1	0	0	0	1	0	0	0	1	1	1	1
3	1	0	0	1	1	1	0	1	1	0	1	1
4	1	0	2	1	1	1	1	1	1	1	1	2
5	0	0	2	1	0	1	0	1	1	1	1	2
6	1	0	1	1	0	1	1	0	0	1	1	2
7	1	1	1	1	0	0	1	1	1	1	1	1
8	1	0	1	1	1	0	1	1	1	1	1	1
9	1	0	0	1	1	1	1	1	1	1	0	1
10	1	0	1	0	0	1	1	1	1	1	0	1
11	1	1	1	0	0	1	1	1	1	0	1	0
12	0	1	1	0	0	0	1	1	0	0	1	1
13	0	0	0	1	2	0	1	1	1	1	1	1
14	1	1	1	1	1	0	1	1	1	0	1	1
15	1	1	1	2	1	1	1	1	1	0	1	1
16	1	2	1	1	1	1	1	0	1	1	1	1
17	1	1	1	1	1	0	1	0	1	1	1	1
18	0	1	1	1	0	0	1	1	1	1	1	1
19	0	0	1	1	1	1	1	1	0	1	1	1
20	1	1	1	1	1	0	1	1	0	1	1	1
21	1	1	1	1	1	0	0	1	0	1	1	1
22	1	0	2	1	0	0	1	1	1	1	1	0
23	1	0	2	1	0	0	1	1	1	1	1	1
24	1	2	2	1	1	1	1	0	1	1	1	1
25	0	1	1	0	1	1	1	0	1	2	1	1
26	1	1	1	1	1	1	1	1	0	1	2	2
27	0	1	1	1	1	0	0	1	1	1	1	1
28	1	1	1	0	1	1	0	1	2	1	1	1
29	1	0	0	1	1	1	0	1	1	1	1	0
30	1	...	0	1	1	1	1	1	1	0	0	1
31	0	...	0	...	0	...	1	1	...	1	...	1
Sum	23	17	29	24	22	17	24	24	25	26	28	31

In the above table 0 represents calm day.
" 1 " small disturbance.
" 2 " larger disturbance.

Days are reckoned from 4 h. 51 m. to 4 h. 51 m. of local civil mean time corresponding to 0 h. to 0 h. of Greenwich civil mean time.

The following is a list of days during the year 1920 selected as "quiet" from the Alibag records, as suitable locally for the determination of the magnetic diurnal inequalities :—

TABLE 4.

MONTHS.	Selected quiet days.				
1920.					
January	5	6	19	20	27
February	3	6	10	28	29
March	3	9	13	20	31
April	1	12	13	25	27
May	6	11	12	23	24
June	3	8	14	22	27
July	3	5	20	21	29
August	1	2	24	25	26
September	2	7	20	21	25
October	9	11	12	15	30
November	3	9	10	24	30
December	1	11	19	22	29

The following table gives the corrected monthly mean values of the several magnetic elements and of the summed ranges of the horizontal force.

TABLE 5.

Months.	Absolute values of				Horizontal Force.
	Horizontal force.	Vertical force.	Inclination.	Easterly declination.	Summed ranges.
1920.	C. G. S.	C. G. S.	° ′	° ′ ″	C. G. S.
January	0·36919	0·17712	24 52·1	0 22 13	0·00248
February	0·36923	0·17132	24 52·7	0 21 42	0·00339
March	0·36893	0·17128	24 54·2	0 21 54	0·00478
April	0·36901	0·17130	24 54·1	0 21 33	0·00358
May	0·36919	0·17144	24 54·5	0 21 8	0·00321
June	0·36933	0·17147	24 54·2	0 20 22	0·00297
July	0·36932	0·17157	24 55·0	0 19 47	0·00330
August	0·36934	0·17153	24 54·6	0 19 38	0·00254
September	0·36919	0·17163	24 56·0	0 19 5	0·00270
October	0·36922	0·17171	24 56·5	0 18 57	0·00296
November	0·36930	0·17171	24 56·2	0 18 23	0·00268
December	0·36935	0·17170	24 55·9	0 18 24	0·00264

T. K. CHINMAYANANDAM,
Director,
Bombay and Alibag Observatories.

Nocturnal Radiation.

Observations of the terrestrial radiation thermometers, which are, as a rule, not very reliable, were recorded during the year 1920, at the following stations :—

Srinagar. Calcutta (Alipore).
Lahore. Bombay.

The following Table 6 gives the average data of past years for the above stations; and Table 7 the departure from the normal for the year 1920.

TABLE 6.—*Average depression of mean monthly and annual nocturnal radiation temperature below mean monthly and annual minimum shade temperatures.*

Station.	Number of years observations used.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	22—27	8·0	8·3	9·3	9·7	10·6	10·5	10·3	9·9	11·4	11·2	11·0	10·2	10·0
Lahore	43—44	9·6	9·4	9·0	9·3	9·1	6·3	4·1	4·2	6·6	9·9	10·8	10·2	8·2
Calcutta (Alipore)	43—44	7·4	6·9	6·0	4·5	3·2	2·2	1·9	2·0	2·5	4·3	6·4	7·8	4·6
Bombay	45	9·4	8·9	8·1	6·5	4·4	3·0	2·5	2·8	3·4	6·1	9·0	9·8	6·2

TABLE 7.—*Departures from the averages of Table 6 of mean monthly and annual depression of nocturnal radiation temperatures in 1920.*

STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Srinagar	−5·0	−4·2	−5·0	−5·5	−5·3	−5·2	−4·4	−4·2	−6·9	−6·1	−5·2	−4·6	−5·1
Lahore	+0·7	+0·4	+0·5	+1·4	+1·2	+1·8	+0·1	+1·9	+1·1	+1·4	+0·9	+2·6	+1·1
Calcutta (Alipore) . . .	+0·5	−0·7	−0·8	+0·8	+1·0	+1·3	+0·2	+0·8	+1·1	+0·3	+0·5	+1·2	+0·5
Bombay	−0·7	+0·6	+0·3	−0·8	−0·7	+1·1	+1·1	+1·4	+1·3	+1·1	+1·8	+1·0	+0·6

Temperature of the ground.

Observations of the temperature of the surface of the ground were recorded during the year 1919 at four stations, Lahore, Jaipur, Calcutta (Alipore) and Bombay; and of the temperature underground at Bombay only.

The thermometers used for the purpose are verified standard mercurial thermometers with attached scales of porcelain, the scale being engraved also on the tube.

At Lahore the surface thermometer is read four times daily; at Jaipur at 10 and 16 hrs., and at Calcutta at 13 hrs. 45 mins. At Bombay the two nearest to the surface are read five times a day, the deeper instruments being read once only.

The thermometers below the surface have their bulbs protected with pointed copper shoes which rest on ground at the bottom of a wooden tube, inserted to the specified depth and projecting six inches above the surface, the upper ends being closed by a cap of metal or wood.

An analysis of underground temperature observations by Mr. R. Ll. Jones (Meteorological Memoirs, Volume XV, Part III) lead to inconsistent results due probably to irregularities from percolation of rainfall as well as to imperfections in the mode of measurement. Hence the departures from the averages of past years are given in the table below as more likely to give indications of value than the actual temperatures recorded. The number of years included in the averages in the different cases lies between 34 and 40.

The thermometer at Alipore is exposed in a new site from 24th November 1915, as in the old site the bulb was in the shade of the branches of a tree. The departures in the table are based on averages based on 40 years which include the low temperatures recorded in the old site. As this is misleading, the monthly departures from the averages of the five years 1916 to 1920 are given here: these are +1·9, −3·6, −8·1, −2·6, +5·9, +12·5, +0·8, +1·1, +0·1, 0, +6·0 and +3·4.

TABLE 8.—*Departures from normal of the mean monthly and annual temperatures of the air and of the ground in 1920.*

STATION.		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
LAHORE	Air	+0·2	−0·3	−2·1	−3·2	−6·6	−0·6	+3·7	+1·3	+2·9	+2·7	+3·6	+0·5	+0·2
	Surface	+1·2	+1·8	−0·5	−2·9	−9·1	−0·6	+3·8	0	+3·1	+4·6	+6·4	+1·4	+0·3
JAIPUR	Air	+0·1	−0·5	+0·2	−3·0	−7·7	−4·3	−3·0	−0·7	+2·5	+2·2	+1·6	−0·8	−1·2
	Surface	+1·6	+4·8	+1·3	+2·4	−8·0	−10·7	−13·0	+10·0	+12·7	+8·8	+7·6	+1·7	+1·6
CALCUTTA (ALIPORE)	Air	+1·5	+1·2	0	0	+1·3	+4·0	+0·8	+1·2	+1·2	+1·2	+1·5	+0·3	+1·2
	Surface	+19·7	+16·0	+8·2	+5·6	+11·4	+14·7	+5·0	+4·0	+4·2	+8·5	+19·6	+21·1	+11·5
BOMBAY	Air	+2·9	+1·3	+1·3	+0·5	+0·5	+1·3	+0·3	+1·1	+1·9	+2·3	+2·0	+0·3	+1·3
	1 inch deep	+2·5	+0·7	+1·2	+0·5	+0·7	+1·5	+0·7	+1·2	+2·1	+2·3	+1·7	+0·3	+1·3
	9 inches „	+3·3	+1·8	+2·1	+1·7	+1·9	+2·5	+1·8	+2·2	+2·9	+3·2	+2·5	+1·6	+2·3
	1 foot 8 inches deep	+3·3	+3·0	+3·0	+2·9	+3·2	+3·3	+3·1	+3·0	+3·7	+4·3	+4·0	+2·6	+3·3
	5 feet deep	+2·9	+2·7	+2·6	+2·3	+2·6	+2·3	+2·5	+3·1	+3·5	+3·4	+3·3	+2·8	+2·8
	11 „ „	+1·7	+1·9	+2·3	+1·7	+1·4	+0·8	+0·6	+1·1	+1·5	+2·0	+1·9	+1·9	+1·6

Temperature.

The methods of exposing the thermometers at observatories in India were described in pages 18-19 of the Annual Report for 1890.

The method of deducing the daily and monthly means from the observed reading of the instruments was described in pages 6 and 7 of the Monthly Weather Review for January 1920.

The departures from normal of the mean temperature of each month given in Table A of the Monthly Weather Reviews are deduced by a comparison of the actual monthly means with the normal monthly means given in the "Indian Meteorological Memoirs," Volume XVII, pages 16 to 20.

The departures obtained by a comparison of these normal means with the actual monthly means in Table A of the Monthly Weather Reviews for the year are given in Table 9.

In Table B, published in each Monthly Review, the mean temperature of the day is calculated, as in the Daily Weather Report, by the formula:—daily means $= \frac{\text{maximum} + \text{minimum}}{2}$. It differs from the true daily mean by amounts varying slightly with the season. In Table B of the Monthly Weather Reviews of the year 1920 are given the departures from normal of the monthly means of daily maximum and minimum temperatures, as well as the departures of the monthly means of daily mean temperature given by the formula ½ (maximum + minimum).

In the great majority of cases the normals of maximum and minimum temperatures for the stations in Table B, are derived from the data of the 33 year period 1878—1910; in the case of some of the most recently started observatories the period is shorter, but it is never less than five years. The normals are given in the "Indian Meteorological Memoirs," Volume XXII, Part III, pages 426—457.

Tables 10 to 15 give summaries of the temperature departure data for each month of the year 1920 and for the whole year. In the first set of tables (Tables 10, 11 and 12) the departure data are given for the 15 chief political divisions, and in the last three tables (Tables 13 to 15) the data are given for the 33 sub-divisions.

TABLE 9.—*Departure from normal of monthly and annual mean air temperature of first and second class stations in 1920.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
BENGAL	Calcutta	+1·5	+1·2	0	0	+1·3	+4·0	+0·8	+1·2	+1·2	+1·2	+1·5	+0·3	+1·2
PUNJAB	Labore	+0·2	−0·3	−2·1	−3·2	−6·6	−0·6	+3·7	+1·3	+2·9	+2·7	+3·6	+0·5	+0·2
RAJPUTANA	Jaipur	+0·1	−0·5	+0·2	−3·0	−7·7	−4·8	−3·0	−0·7	+2·5	+2·2	+1·6	−0·8	−1·2
BOMBAY	Bombay	+2·9	+1·3	+1·3	+0·5	+0·5	+1·3	+0·3	+1·1	+1·9	+2·3	+2·0	+0·3	+1·3
MYSORE	Bangalore	+0·7	+2·0	+1·7	0	+1·5	+0·6	+0·8	+0·7	+1·0	+1·1	+1·0	+0·2	+0·9
MADRAS	Madras	+1·0	+1·9	+0·7	+0·2	+0·3	+1·2	+2·9	+1·4	+2·3	+0·9	+0·6	0	+1·1
HILL STATIONS, EXCLUDING KASHMIR AND BALUCHISTAN.	Srinagar	+0·8	−0·3	−0·8	−3·9	−6·2	−1·9	+5·8	+1·9	+2·6	+2·5	+1·9	+0·1	+0·2
	Katmandu	+2·4	+1·3	+0·3	+1·7	+0·6	+2·8	+1·9	+0 5	0	+0·4	+2·2	+0·7	+1·2
EXTRA INDIA	Seychelles	+0·8	+1·1	+2·4	+2·2	+0·9	+0·9	+0·6	+0·5	...	...	...	+0·5	...
	Mauritius	0	−1·2	−0·3	−1·3	−0·7	−2·0	−1·2	−0·4	−1·3	−0·2	−1·1	−0·9	−0·9

TABLE 10.—*Departure of the mean monthly and annual maximum temperature from the normal in the fifteen chief political divisions of India in 1920, as given by all observatories.*

Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma	−0·7	−1·0	+0·1	+0·5	−0·2	+1·9	+0·4	+0·5	+0·2	−0·3	+0·5	+1·6	+0·3
Assam	+2·1	−1·4	−4·5	−1·0	−0·6	−0·3	+1·6	−0·3	−0·4	−0·3	+1·1	+2·4	−0·1
Bengal	+0·8	−1·3	−3·3	−1·9	+0·8	+2·1	+0·3	+0·4	−0·2	+0·1	+1·0	+1·2	0
Bihar and Orissa	+0·2	−0·4	−1·6	−0·2	−0·3	+3·2	−0·8	+0·3	+0·1	+2·0	+1·9	+1·9	+0·5
United Provinces	+0·4	0	−1·0	+0·6	−3·5	+2·0	−2·3	+1·5	+3·6	+4·4	+3·0	+2·4	+0·9
Punjab	−0·7	−0·9	−1·8	−2·2	−7·5	−2·2	+0·7	+1·7	+4·0	+2·8	+2·5	+2·1	−0·1
North-West Frontier Province	−0·7	−1·7	−1·5	−3·5	−4·7	+0·7	+4·7	+3·1	+3·9	+3·5	+1·8	+0·9	+0·5
Sind	+0·2	−0·5	+1·8	+0·8	−1·9	+0·7	+0·7	−0·1	−0·1	+1·2	+1·7	−2·6	+0·2
Rajputana	+0·1	+0·5	+0·6	−1·1	−5·9	−5·9	−3·7	−0·9	+4·3	+3·9	+2·2	+2·1	−0·3
Bombay	+0·4	+0·5	+1·2	0	−0·9	−0·9	−0·4	+0·9	+2·5	+2·5	+2·8	+1·7	+0·9
Central India	−0·9	+0·3	+0·3	−0·5	−4·7	−0·4	−2·9	−0·2	+2·9	+4·3	+3·2	+3·1	+0·4
Central Provinces	−1·0	−0·1	+0·1	−1·1	−3·5	+1·6	−1·8	+0·8	+3·1	+5·3	+3·5	+4·5	+0·9
Hyderabad	−0·7	+0·3	+1·7	−0·1	+0·1	+2·4	+1·5	+4·7	+4·3	+4·6	+3·5	+4·3	+2·2
Mysore	−1·7	+0·7	+1·3	−0·3	+1·5	+0·9	−0·2	+0·9	+1·0	+1·1	0	+2·7	+0·7
Madras	−0·9	+0·8	+0·3	−0·9	+0·3	+0·1	+0·9	+0·7	+0·6	+0·1	−1·0	+0·7	+0·1

TABLE 11.—*Departure of the mean monthly and annual minimum temperature from the normal in the fifteen chief political divisions of India in 1920.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma	+2·0	+0·2	+1·0	−0·4	−0·3	+0·3	+0·3	+0·4	+0·1	−0·4	−0·8	+1·3	+0·3
Assam	+2·6	+1·1	+1·7	−1·3	−1·2	−0·1	+0·5	−0·4	−0·5	+0·4	−0·9	+2·7	+0·4
Bengal	+1·2	+1·1	+0·8	−0·5	−0·4	+0·4	+0·4	+0·1	−0·1	+0·7	+0·4	+0·3	+0·3
Bihar and Orissa	−0·2	+0·7	+1·2	−0·5	−1·5	+0·8	+0·1	−0·2	−0·3	+0·9	+0·3	−1·7	0
United Provinces	−0·7	+0·1	+0·9	−1·3	−4·4	0	−0·5	+0·1	−0·2	+1·2	+0·8	−1·3	−0·5
Punjab	+0·6	+0·8	+0·6	−1·3	−7·0	−2·1	+1·2	−0·4	+1·7	+2·0	+2·3	−0·9	+0·3
North-West Frontier Province	+1·1	+0·2	−1·5	−2·9	−4·8	−2·3	+3·4	+0·1	+2·6	+2·4	+2·9	−0·4	+0·1
Sind	+0·1	+0·4	+2·5	−1·1	−0·8	+1·2	+1·6	+0·3	+1·6	+1·0	+2·9	−2·9	+0·6
Rajputana	+1·0	+0·4	+0·5	2·4	−7·1	−4·8	−2·0	+2·6	+0·6	+0·8	+1·1	−3·1	−1·5
Bombay	+3·7	+0·3	+0·8	−0·6	−0·7	−0·2	+0·3	−0·6	+1·0	+1·2	+1·7	−1·7	+0·4
Central India	+1·6	+0·2	+1·5	−1·5	−5·3	−0·3	−0·4	−0·9	+0·1	−0·2	+1·3	−1·9	−0·5
Central Provinces	+1·4	−0·1	+0·4	−0·2	−3·6	+1·5	+0·1	−0·6	+0·4	+1·4	+0·8	−1·3	0
Hyderabad	+1·9	−0·3	+1·0	+0·7	−1·2	+0·8	+0·4	+0·5	+0·8	+2·8	+2·6	−1·2	+0·7
Mysore	+1·2	+0·2	+1·6	+0·7	−0·3	+0·4	+0·2	−0·3	+0·8	+0·9	+2·4	−2·2	+0·5
Madras	+1·6	+1·2	+1·9	+0·2	+0·4	+0·1	+1·0	+0·2	+0·4	+0·8	+1·4	−1·5	+0·6

TABLE 12.—*Departure of mean monthly and annual mean temperature from the normal in the fifteen chief political divisions of India in 1920.*

Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma	+0·6	−0·4	+0·6	0	−0·3	+1·1	+0·4	+0·5	+0·2	−0·3	−0·1	+1·4	+0·3
Assam	+2·3	−0·1	−1·4	−1·0	−0·9	−0·2	+1·1	−0·4	−0·4	0	+0·1	+2·5	+0·1
Bengal	+1·0	−0·1	−1·3	−1·2	+0·2	+1·3	+0·3	+0·2	−0·1	+0·4	+0·7	+0·8	+0·1
Bihar and Orissa	0	+0·1	−0·2	−0·4	−0·9	+3·0	−0·3	+0·1	−0·1	+1·5	+1·1	+0·1	+0·5
United Provinces	−0·2	+0·1	0	−0·3	−1·0	+1·0	−1·4	+0·7	+1·7	+2·8	+1·9	+0·6	+0·2
Punjab	0	−0·1	−1·2	−1·7	−7·3	−2·1	+0·9	+0·6	+2·9	+2·4	+2·4	+0·6	−0·2
North-West Frontier Province	+0·2	−0·7	−1·5	−3·2	−4·7	−0·9	+4·1	+1·5	+3·3	+3·0	+2·3	+0·5	+0·8
Sind	+0·1	0	+2·2	−0·2	−1·4	+0·9	+1·2	+0·1	+0·8	+1·1	+2·3	−2·8	+0·4
Rajputana	+0·5	0	+0·5	−1·8	−6·5	−5·3	−2·9	−1·8	+2·5	+2·4	+1·7	−0·5	−0·9
Bombay	+2·0	+0·4	+1·0	−0·3	−0·8	−0·6	−0·1	+0·2	+1·8	+1·9	+2·3	0	+0·7
Central India	+0·3	+0·2	+0·9	−0·9	−5·1	−0·3	−1·7	−0·5	+1·5	+2·0	+2·3	+0·7	−0·1
Central Provinces	+0·2	−0·1	+0·3	−0·7	−3·5	+1·6	−0·8	+0·1	+1·8	+3·3	+2·1	+1·6	+0·5
Hyderabad	+0·6	0	+1·4	+0·2	−0·5	+1·6	+0·9	+2·6	+2·5	+3·7	+3·1	+1·6	+1·5
Mysore	−0·2	+0·8	+1·5	+0·2	+0·5	+0·7	0	+0·3	+0·9	+1·0	+1·2	+0·3	+0·6
Madras	+0·3	+1·0	+1·1	−0·4	+0·4	+0·1	+0·9	+0·5	+0·5	+0·5	+0·2	−0·4	+0·4
Whole of India	+0·5	+0·1	+0·3	−0·7	−2·3	0	−0·1	+0·3	+1·3	+1·6	+1·4	+0·5	+0·2

TABLE 13.—*Departure of the mean monthly and annual maximum temperature from the normal in 33 sub-divisions of India in 1920.*

SUB-DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
1. Bay Islands	−1·0	−2·4	−0·7	−0·5	−0·9	−0·3	−0·7	−0·3	−0·4	−1·5	−1·3	−1·1	−0·9
2. Lower Burma	−0·8	−0·4	+0·5	+0·5	+0·1	+0·2	+0·3	+0·8	+0·4	−0·6	+0·2	+0·4	+0·1
3. Upper Burma	−0·6	−1·6	−0·3	+0·5	−0·6	+4·0	+1·2	+0·3	0	−0·1	+0·8	+2·7	+0·5
4. Assam	+2·1	−1·4	−4·5	−1·0	−0·6	−0·3	+1·6	−0·3	−0·4	−0·2	+1·1	+2·4	−0·1
5. Bengal	+0·8	−1·3	−3·3	−1·9	+0·8	+2·1	+0·3	+0·4	−0·2	+0·1	+1·0	+1·2	0
6. Orissa	−0·4	−0·4	−0·5	−1·1	−0·7	+1·2	−2·5	+0·4	+1·1	+1·1	+1·6	+1·7	+0·1
7. Chota Nagpur	0	−0·7	−0·9	+0·3	−1·4	+4·1	−1·3	−0·3	+0·5	+3·4	+2·4	+2·5	+0·7
8. Bihar	+0·7	−0·3	−2·8	+0·1	+1·2	+4·7	+0·7	+0·6	−0·9	+1·4	+1·8	+1·7	+0·7
9. United Provinces, East	+0·7	−0·1	−1·4	+0·6	−2·7	+3·8	−2·2	+1·2	+2·7	+4·6	+3·0	+2·3	+1·0
10. Do. do., West	−0·1	+0·2	−0·5	+0·7	+4·5	−0·2	−2·8	+1·8	+4·6	+4·6	+3·0	+2·6	+0·8
11. Punjab, East and North	−1·0	−1·2	−1·9	−1·6	−7·3	−2·1	+0·4	+2·5	+4·4	+2·9	+2·7	+2·5	0
12. Do., Southwest	+0·2	0	−1·5	−4·5	−8·2	−2·4	+1·1	−0·1	+2·7	+2·5	+1·5	+1·2	−0·6
13. Kashmir	−2·2	−2·3	−3·3	−6·1	−9·0	−4·3	+3·7	−2·3	+0·6	−2·0	+1·0	+2·7	−2·0
14. North-West Frontier Province	−0·7	−1·7	−1·5	−3·5	−4·7	+0·7	+4·7	+3·1	+3·9	+3·5	+1·3	+0·9	+0·5
15. Baluchistan	+3·9	−1·8	+2·0	−1·8	−5·4	−3·2	+4·8	−1·0	+4·7	+1·9	+3·3	−4·3	+0·3
16. Sind	+0·2	−0·5	+1·8	+0·8	−1·9	+0·7	+0·7	−0·1	−0·1	+1·2	+1·7	−2·6	+0·2
17. Rajputana, West	+2·1	+1·9	+2·0	?	−5·5	−5·9	−1·5	−1·0	+4·1	+4·1	+2·1	+2·1	+0·4
18. Do., East	−0·6	−0·5	+0·1	−1·1	−6·1	−5·9	−5·2	−0·8	+4·5	+3·8	+2·2	−2·1	−0·6
19. Gujarat	+1·0	+0·6	+1·4	+0·2	−1·7	−2·7	−1·0	+0·4	+3·1	+2·7	+3·0	+0·9	+0·7
20. Central India, West	−1·0	+0·1	+0·7	−0·1	−4·3	−1·5	−2·7	−0·2	+3·5	+4·3	+3·3	−3·7	+0·5
21. Do. do., East	−0·9	+0·5	−0·1	−0·7	−5·1	+0·3	−3·1	−0·2	+2·3	+4·2	+3·1	+2·7	+0·3
22. Berar	−0·7	−0·8	+0·9	−0·4	−2·3	+2·7	−0·3	+2·5	+5·0	+7·3	+4·8	+6·6	+2·1
23. Central Provinces, West	−1·2	−0·1	−0·3	−1·2	−4·2	+0·6	−2·5	+0·4	+2·7	+4·9	+2·9	+4·1	+0·5
24. Do. do., East	−0·9	+0·7	+0·5	−1·3	−2·5	+2·5	−1·7	+0·3	+2·1	+4·3	+3·2	+3·9	+0·9
25. Konkan	+1·8	+1·5	+0·9	+0·1	+0·2	+0·5	0	+0·3	+1·3	+1·3	+1·9	−0·2	+0·8
26. Bombay Deccan	−1·4	−0·2	+1·3	−0·3	−0·6	+0·5	0	+1·9	+2·6	+3·0	+3·1	+3·9	+1·1
27. Hyderabad, North	−0·7	−0·8	+2·7	+0·4	−0·3	+2·7	+0·9	+3·9	+4·5	+6·2	+4·3	+6·0	+2·5
28. Do., South	−0·7	+0·7	+1·3	−0·4	+0·3	+2·3	+1·7	+5·1	+4·1	+3·8	+3·1	+3·9	+2·1
29. Mysore	−1·7	+0·7	+1·3	−0·3	+1·5	+0·9	−0·2	+0·9	+1·0	+1·1	0	+2·7	+0·7
30. Malabar	−0·1	+0·5	+0·8	−0·1	+0·5	−1·2	−0·6	−0·9	−0·3	−0·5	−1·5	−0·1	−0·3
31. Madras, Southeast	−1·1	+0·7	+0·1	−1·4	+0·5	−0·2	+1·1	+0·4	0	+0·6	−2·3	+0·3	−0·1
32. Do. Deccan	−2·1	+0·2	+0·2	−0·7	+0·2	+2·0	+1·1	+2·2	+1·1	+0·3	+0·9	+2·5	+0·7
33. Do. Coast, North	−0·7	+1·7	+0·2	−0·7	−0·4	+0·4	+1·9	+2·3	+2·1	−0·3	+1·0	+1·2	+0·7

* Mean of 11 months.

TABLE 14.—*Departure of the mean monthly and annual minimum temperature from the normal in 33 sub-divisions of India in 1920.*

SUB-DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
1. Bay Islands	+1·2	−1·5	+1·4	−0·1	−0·1	−0·7	+0·5	0	+0·1	−0·3	+0·5	−0·7	0
2. Lower Burma	+0·3	−0·2	+0·7	−0·4	+0·2	−0·4	+0·2	+0·3	0	−0·6	+0·6	+2·2	+0·2
3. Upper Burma	+4·0	+0·6	+1·4	+0·5	−0·8	+1·1	+0·6	+0·5	+0·3	−0·5	−2·1	+0·3	+0·4
4. Assam	+2·6	+1·1	+1·7	−1·3	−1·2	−0·1	+0·5	−0·4	−0·5	−0·1	−0·9	+2·7	+0·3
5. Bengal	+1·2	+1·1	+0·8	−0·5	−0·4	+0·4	+0·4	−0·1	−0·1	+0·7	+0·4	+0·3	+0·3
6. Orissa	−0·1	+0·7	+1·9	−0·4	−1·3	+0·1	−0·5	−0·3	−0·1	+0·9	+0·5	−2·6	−0·1
7. Chota Nagpur	−0·8	+0·4	+1·1	−0·1	−2·1	+2·0	+0·2	−0·2	+0·1	+0·8	+0·7	−1·9	0
8. Bihar	+0·1	+0·7	+0·6	−0·8	−1·1	+0·6	+0·4	−0·1	−0·7	+1·1	0	−0·8	0
9. United Provinces, East	−0·6	+0·5	+1·0	−1·4	−3·3	+1·2	−0·5	−0·1	−0·5	+0·6	+0·3	−0·9	−0·3
10. Do., do., West	−0·8	−0·4	+0·7	−1·1	−5·7	−1·5	−0·5	0	+0·3	+1·5	+1·3	−1·8	−0·7
11. Punjab, East and North	+0·3	+0·3	−0·7	−1·0	−6·8	−2·0	+0·9	+0·3	+2·0	+2·5	+2·4	−0·6	−0·2
12. Do., Southwest	+1·3	+2·3	−0·3	−2·3	−7·6	−2·3	+1·8	−1·6	+0·7	+0·8	+2·0	−1·6	−0·6
13. Kashmir	−1·3	−2·7	0	−2·5	−5·8	−1·2	+2·2	−2·1	−1·0	−0·3	+0·9	+2·3	−1·0
14. North-West Frontier Province	+1·1	+0·2	−1·5	−2·9	−4·3	−2·3	+3·4	−0·1	+2·6	+2·4	+2·9	−0·4	+0·1
15. Baluchistan	−1·4	−3·1	−0·1	−3·3	−5·5	−3·5	+3·5	−1·8	+4·7	+1·5	+0·5	−8·9	−1·5
16. Sind	+0·1	+0·4	+2·5	−1·1	−0·8	+1·2	+1·6	+0·3	+1·6	+1·0	+2·9	−2·9	+0·6
17. Rajputana, West	+2·2	−1·3	+0·7	?	−7·1	−5·2	−2·1	−3·3	+0·6	+0·3	+1·9	−3·7	−1·5*
18. Do., East	+0·6	+0·1	+0·5	−2·4	−7·1	−3·5	−1·9	−2·7	+0·7	+1·1	+0·8	−2·7	−1·4
19. Gujarat	+3·2	+0·3	+1·8	−0·9	−0·7	−0·6	+0·3	−0·5	+1·3	+0·6	+1·0	−2·3	+0·3
20. Central India, West	+3·5	+0·7	+1·4	−1·7	−5·5	−0·7	−0·3	−1·1	+0·7	+0·5	+1·7	−1·6	−0·2
21. Do. do., East	−0·4	−0·2	+1·5	−1·3	−5·1	+0·2	−0·5	−0·7	−0·7	−0·9	+0·9	−2·2	−0·8
22. Berar	+2·9	−0·3	0	+0·7	−2·7	+2·2	+0·7	0	+1·4	+3·9	+2·6	+0·7	+1·0
23. Central Provinces, West	+1·7	0	+0·2	−0·7	−4·1	+0·8	−0·4	−0·9	−0·1	+0·2	0	−1·9	−0·4
24. Do. do., East	+0·1	−0·3	+1·0	−0·3	−3·1	+2·4	+0·5	−0·5	+0·5	+0·2	+0·4	−1·7	−0·1
25. Konkan	+3·9	+1·0	+0·7	−0·7	+0·1	+0·4	+0·3	−0·1	+1·1	+1·8	+2·5	−1·0	+0·8
26. Bombay Deccan	+4·1	−0·3	−0·5	−0·1	−1·3	−0·1	+0·2	−1·0	+0·5	+1·9	+2·2	−1·3	+0·4
27. Hyderabad, North	+3·3	+1·0	+0·9	+0·7	−1·3	+1·1	+0·7	+0·1	+0·7	+3·6	+2·6	−2·0	+0·9
28. Do., South	+1·1	−0·7	+1·0	+0·6	−1·1	+0·7	+0·3	+0·7	+0·8	+2·4	+2·6	−0·9	+0·6
29. Mysore	+1·2	+0·9	+1·6	+0·7	−0·3	+0·4	+0·2	−0·3	+0·3	+0·9	+2·4	−2·2	+0·5
30. Malabar	+1·6	+0·3	+1·6	−0·3	+0·9	−0·7	+0·1	−0·5	+0·3	+0·7	+1·1	−0·9	+0·3
31. Madras, Southeast	+1·7	+1·5	+2·0	+0·5	+0·7	+0·3	+1·2	+0·3	+0·2	+0·8	+1·1	−1·8	+0·7
32. Do. Deccan	+2·6	+1·0	+1·5	+0·9	0	+0·7	+1·0	+0·3	+0·5	+1·4	+2·3	−1·4	+0·9
33. Do. Coast, North	+0·7	+1·2	+1·9	−0·6	−0·3	+0·3	+1·4	+0·7	+0·9	+0·7	+1·3	−1·6	+0·5

* Mean of 11 months.

TABLE 15.—*Departure of the mean monthly and annual mean temperature from the normal in 33 sub-divisions of India in 1920.*

SUB-DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
1. Bay Islands	+0·1	−1·9	+0·3	−0·3	−0·5	−0·5	−0·1	−0·1	−0·1	−0·9	−0·4	−0·9	−0·4
2. Lower Burma	−0·3	−0·3	+0·6	+0·1	+0·1	−0·1	−0·1	+0·5	+0·2	−0·6	+0·4	+1·3	+0·1
3. Upper Burma	+1·7	−0·5	+0·5	0	−0·7	+2·5	+0·9	+0·4	+0·1	−0·3	−0·7	+1·5	+0·5
4. Assam	+2·3	−0·1	−1·4	−1·1	−0·9	−0·2	+1·1	−0·3	−0·5	−0·1	+0·1	+2·5	+0·1
5. Bengal	+1·0	−0·1	−1·3	−1·2	+0·2	+1·3	+0·3	+0·1	−0·1	+0·4	+0·7	+0·7	+0·1
6. Orissa	−0·3	+0·1	+0·7	−0·7	−1·0	+0·7	−1·5	+0·1	+0·5	+1·0	+1·1	−0·5	0
7. Chota Nagpur	−0·4	−0·1	+0·1	+0·1	−1·7	+3·1	−0·5	−0·3	+0·3	+2·1	+1·5	+0·3	+0·3
8. Bihar	+0·4	+0·2	−1·1	−0·3	+0·1	+2·7	+0·5	+0·3	−0·8	+1·3	+0·9	+0·5	+0·4
9. United Provinces, East	+0·1	+0·2	−0·2	−0·4	−3·0	+2·5	−1·3	+0·5	+1·1	+2·6	+1·7	+0·7	+0·4
10. Do. do., West	−0·5	−0·1	+0·1	−0·2	−5·1	−0·9	−1·4	+0·9	+2·5	+3·1	+2·1	+0·4	+0·1
11. Punjab, East and North	−0·3	−0·5	−1·3	−1·3	−7·1	−2·1	+0·7	+1·4	+3·2	+2·7	+2·5	+0·9	−0·1
12. Do., South-west	+0·7	+1·1	−0·9	−3·4	−7·9	−2·3	+1·5	−0·9	+1·7	+1·7	+1·7	−0·2	−0·6
13. Kashmir	−1·7	−2·5	−1·7	−4·3	−7·4	−2·7	+2·9	−2·2	−0·2	−1·1	+0·2	+2·5	−1·5
14. North West Frontier Province	+0·2	−0·7	−1·5	−3·2	−4·7	−0·8	+4·1	+1·5	+3·3	+2·9	+2·3	+0·3	+0·3
15. Baluchistan	+1·3	−2·5	+0·9	−2·5	−5·5	−3·3	+4·1	−1·4	+4·7	+1·7	+1·9	−5·6	−0·6
16. Sind	+0·1	−0·1	+2·1	−0·1	−1·3	+0·9	+1·1	+0·1	+0·7	+1·1	+2·3	−2·7	+0·4
17. Rajputana, West	+2·1	+0·3	+1·3	?	−6·3	−5·5	−1·8	−2·1	+2·3	+2·2	+2·0	−0·8	−0·6*
18. Do., East	0	−0·2	+0·3	−1·7	−6·6	−5·2	−3·5	−1·5	+2·6	+2·5	+1·5	−0·3	−1·0
19. Gujarat	+2·1	+0·5	+1·6	−0·3	−1·2	−1·7	−0·3	−0·1	+2·2	+1·7	+2·0	−0·7	+0·5
20. Central India, West	+1·3	+0·4	+1·1	−0·9	−4·9	−1·1	−1·5	−0·7	+2·1	+2·4	+2·5	+·1	+0·1
21. Do. do., East	−0·7	+0·1	+0·7	−1·0	−5·1	+0·5	−1·8	−0·5	+0·8	+1·7	+2·0	+0·3	−0·3
22. Berar	+1·1	−0·5	+0·5	+0·1	−2·5	+2·5	+0·2	+1·3	+3·2	+5·6	+3·7	+3·7	+1·6
23. Central Provinces, West	+0·3	−0·1	−0·1	−0·9	−4·1	+0·7	−1·5	−0·3	+1·3	+2·5	+1·5	+1·1	0
24. Do. do., East	−0·4	+0·2	+0·7	−1·1	−2·8	+2·5	−0·6	−0·1	+1·3	+2·3	+1·3	+1·1	+0·4
25. Konkan	+2·9	+1·3	+0·3	−0·3	+0·1	+0·5	+0·1	+0·1	+1·2	+1·5	+2·2	−0·6	+0·8
26. Bombay Deccan	+1·3	−0·3	+0·4	−0·2	−0·9	+0·2	+0·1	+0·5	+1·5	+2·5	+2·7	+1·3	+0·8
27. Hyderabad, North	+1·3	+0·1	+1·3	+0·5	−0·8	+1·9	+0·8	+2·0	+2·6	+4·9	+3·5	+2·0	+1·7
28. Do., South	+0·2	0	+1·1	+0·1	−0·4	+1·5	+1·0	+2·9	+2·5	+3·1	+2·9	+1·5	+1·4
29. Mysore	−0·3	+0·8	+1·5	+0·2	+0·6	+0·7	0	+0·3	+0·9	+1·0	+1·2	+0·3	+0·6
30. Malabar	+0·7	+0·4	+1·2	−0·2	+0·7	−0·9	−0·3	−0·7	0	+0·1	−0·2	−0·5	0
31. Madras, Southeast	+0·3	+1·1	+1·1	−0·5	+0·6	+0·1	+2·1	+0·3	+0·1	+0·7	−0·6	−0·7	+0·3
32. Do. Deccan	+0·3	+0·6	+0·9	+0·1	+0·1	+1·3	+1·1	+1·3	+0·8	+0·9	+1·9	+0·5	+0·8
33. Do. Coast, North	0	+1·5	+1·1	−0·7	−0·3	+0·3	+1·7	+1·5	+1·5	+0·2	+1·1	−0·2	+0·6

* Mean of 11 months.

Atmospheric pressure.

Full information regarding the types of barometers in use at Indian observatories and of the methods of reducing the observations and obtaining the mean daily and monthly pressures will be found on page 4 of the Monthly Review for January 1920.

In Table A, called Table II prior to 1907, of each Monthly Review, the monthly mean daily pressure (corrected for temperature) is given in the seventh column, and the departure from the normal in the eighth column. The normal monthly mean pressure values were recalculated in 1904 for all first and second class stations, and will be found in pages 66-69 of the "Indian Meteorological Memoirs," Volume XVII. The departure data in the Monthly Reviews for the year 1920 were obtained by a comparison of the actual monthly means with these normals; the departures of the monthly pressure of all first and second class stations in 1920 are given in Table 16. The figures in the seventh and eighth columns of Table A, appended to the present Annual Summary, giving data of the mean pressure of the air and its departure from the normal for all first and second class stations, are comparable with the corresponding data of previous years published in the Annual Reports and Annual Summaries.

In the ninth column of Table A in each Monthly Review are given the mean pressures reduced to sea-level and corrected to constant gravity (Lat. 45°). These are not directly comparable with the sea-level pressure values of the years 1875-90 as given in the Annual Reports for those years, for previous to 1891 no correction was made to reduce the monthly pressure means to standard gravity.

In Table B of each monthly Review, and also in that appended to the Annual Summary, are given the pressure data for 8 hours local time. The fourth column in that table gives the mean 8 hours pressures for the month corrected for temperature. In the fifth column are given the departures of these mean 8 hours pressures from the normal pressures.

The greater part of the normal 8 hours monthly means of pressure used in Table B have been deduced from the barometric observations of the whole of the twenty-two years' period 1889-1910, and in all except 24 cases the periods employed equalled or exceeded five years.

TABLE 16.—*Departure from normal of monthly and annual mean pressure of first and second class observatories in 1920.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		"	"	"	"	"	"	"	"	"	"	"	"	"
Bengal	Calcutta	+·005	—·008	—·012	+·014	+·009	—·022	—·084	+·012	—·045	—·001	—·046	—·059	—·020
Punjab	Lahore	+·029	—·016	—·041	+·026	+·047	—·013	—·053	+·068	—·038	—·033	—·052	—·063	+·017
Rajputana	Jaipur	+·038	+·008	—·037	+·031	+·041	+·013	—·011	+·051	—·001	—·010	—·020	—·029	+·006
Bombay	Bombay	—·015	+·018	—·018	+·004	+·023	—·023	—·011	+·042	+·006	0	—·059	—·027	—·005
Mysore	Bangalore	+·010	+·023	—·003	+·021	+·031	+·001	+·017	+·036	+·001	+·009	—·017	—·002	+·011
Madras	Madras	—·010	0	—·018	+·007	+·003	—·013	—·011	+·015	—·019	—·006	—·050	—·017	—·010
Hill Stations, excluding Kashmir and Baluchistan	Srinagar	+·107	+·008	—·033	—·004	—·006	—·003	—·058	+·014	—·020	+·006	—·030	—·053	—·006
	Katmandu	+·031	+·020	+·026	+·068	+·058	+·066	+·053	+·072	+·047	+·043	+·022	+·006	+·043
Extra India	Seychelles	+·013	+·028	—·003	+·011	—·013	+·020	+·019	+·035	...	...	...	—·007	...
	Mauritius	—·042	—·057	+·033	—·021	+·015	—·003	+·054	—·030	—·018	0	—·021	+·009	—·002

TABLE 17.—*Departure of the mean monthly and annual pressure from the normal in the fifteen chief political divisions of India in 1920.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	"	"	"	"	"	"	"	"	"	"	"	"	"
Burma	+·025	+·017	+·007	+·004	—·014	—·025	—·036	—·006	—·034	+·018	+·031	—·056	—·011
Assam	+·018	—·006	+·003	+·028	—·010	—·023	—·044	—·011	—·022	+·025	—·024	—·053	—·009
Bengal	+·017	—·007	0	+·020	—·003	—·012	—·068	+·008	—·038	+·010	—·028	—·047	—·012
Bihar and Orissa	+·028	—·007	—·014	+·019	+·016	—·009	—·053	+·026	—·019	+·008	—·025	—·044	—·006
United Provinces	+·040	+·001	—·023	+·024	+·033	—·017	—·029	+·022	—·011	+·006	—·019	—·047	—·002
Punjab	+·038	—·001	—·040	+·031	+·046	—·008	—·034	+·013	—·024	—·015	—·035	—·050	—·006
North-West Frontier Province	+·031	—·006	—·051	+·037	+·042	+·002	—·059	—·001	—·043	—·021	—·041	—·059	—·014
Sind	+·029	+·013	—·058	+·033	+·040	—·017	—·034	+·036	—·006	—·009	—·035	—·034	—·003
Rajputana	+·035	+·013	—·047	+·030	+·032	—·003	—·019	+·052	+·004	—·010	—·028	—·035	+·002
Bombay	0	+·016	—·028	+·007	+·009	—·039	—·013	+·042	+·004	+·001	—·043	—·020	—·005
Central India	+·027	+·004	—·042	+·015	+·024	—·015	—·025	+·036	+·003	—·004	—·029	—·035	—·003
Central Provinces	+·022	+·009	—·029	+·017	+·022	—·006	—·016	+·046	+·010	0	—·027	—·033	+·001
Hyderabad	+·019	+·025	—·014	+·016	+·012	—·001	+·003	+·045	+·010	+·007	—·033	—·025	+·005
Mysore	+·001	+·021	—·011	+·004	+·009	—·009	+·004	+·028	—·005	+·001	—·034	—·011	0
Madras	0	+·012	—·013	+·009	+·006	—·004	+·005	+·029	+·003	0	—·041	—·010	—·001
Mean of India	+·022	+·008	—·021	+·017	+·015	—·014	—·027	+·024	—·012	+·003	—·032	—·038	—·005

Storms.

Two storms occurred in the Arabian Sea and one in the Bay of Bengal. The dates on which they occurred and their intensities are given below; other details about them have been given in the weather reviews of the respective months.

TABLE 18.

Month.	Date.	Bay or Arabian Sea.	Greatest observed barometric depth.	Intensity.
			"	
April—May .	28th April to 6th May.	Bay	0·4	Slight.
June . .	6—15	Arabian Sea.	1·4	Severe.
November .	20—28	"	...	"

Winds of force nine or more were recorded on ships in the Indian seas during the year 1920 on the dates and at the places given below.

TABLE 19.

Month and date.	Name of ship.	Approximate position.		Remarks.*
		Latitude.	Longitude.	
1920.		°	°	
25th February .	Trewellard . .	15	42	
5th May . .	Burma Maru . .	6	84	
10th June . .	Rotenfels . .	21	68	
11th " . .	Ditto . .	20	69	
12th " . .	Ditto . .	19	70	
23rd " . .	Baron Elcho . .	18	55	
24th " . .	Ditto . .	12	58	
30th June . .	Muidan . . .	13	55	
7th July . .	Morca . . .	16	59	10 Force.
7th " . .	Scindia . . .	15	58	10 "
8th " . .	Ditto . . .	16	62	
8th " . .	Nellore . . .	16	74	
13th " . .	Zira . . .	19	91	
13th " . .	Oolobaria . .	21	63	
13th " . .	Inventor . .	13	56	
14th " . .	Oolobaria . .	20	65	
15th " . .	Ditto . .	18	67	
17th " . .	Eskbridge . .	16	59	
20th " . .	Clan Macinnes .	13	54	
21st " . .	Ditto . .	14	57	
22nd " . .	Ditto . .	15	62	
23rd " . .	Ditto . .	16	66	
23rd " . .	Khiva . . .	18	59	
24th " . .	Ditto . . .	17	64	
30th " . .	Narkunda . .	16	57	
5th August .	Gregory Apcar .	18	91	
22nd November .	Clan Macquarrie .	10	61	10 Force.
23rd " .	Ditto . .	9	64	10 "

* No remarks are given, when the wind force recorded was nine.

Surface and upper air winds.

Surface.—The mean direction of the wind and the mean diurnal movement of the air as measured by Robinson anemometers are given for all second class stations in Table A in each Monthly Weather Review. The normal values are also stated for the sake of ready comparison. The normal data of these elements, utilized in Table A of the Monthly Weather Reviews of the year 1920, will be found in a collected form in Tables XXII, XXVI and XXVII of Vol. XVII of Indian Meteorological Memoirs. The mean 8 hours wind directions for each month are charted in the first plate and are given in Table B, in each Monthly Review; they are calculated in the usual manner by finding the resultant, irrespective of velocity, of the directions actually observed each day at 8 hours. As a general rule, the mean 8 hours wind directions vary little from the mean wind directions (calculated from the 10 and 16 hours mean wind data) in Table A of the Monthly Reviews, but in some areas and at certain seasons of the year they differ very considerably. The normal values used in Table B have been published in Volume XVII of the departmental Memoirs.

Up to 1911 the factor representing the ratio of air movement to travel of Beckley cups had in India, as in other countries, been taken as 3·0; but as in that year it had been generally accepted that the factor should be 2·2, the change to 2·2 was made in the Monthly Weather Review of January 1912 (see note on page 8 there).

The monthly peculiarities of the air movement have already been dealt with in the Monthly Weather Reviews.

Upper air.—The monthly mean velocities and directions at different heights above Agra, Simla, Lahore, Bangalore, and for some months at other stations have been given in the Monthly Weather Reviews. The results are based upon observations of Balloons by a single theodolite, heights being determined by the tail method. Details of the method will be published in a separate memoir.

Humidity.

The departures from normal of the mean monthly and annual aqueous vapour pressure and relative humidity for stations in Table A, for the year 1920, are given in Tables 20 and 21. The normal values employed in the determination of the departures are given in Tables XXX and XXXIII of the Indian Meteorological Memoirs, Volume XVII. The Tables 22 and 23 give departure data of 8 hours' aqueous vapour pressure and relative humidity for each month of the year and for the year for the fifteen chief political divisions.

Normal values for most of the stations in Table B, have been derived from the 8 hours' records of the period 1889—1910 and are given in Part III, Volume XXII of Meteorological Memoirs.

TABLE 20.—*Departure of the monthly and annual mean vapour pressure data of 1920 from the average of past years.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		"	"	"	"	"	"	"	"	"	"	"	"	"
Bengal	Calcutta	−·003	+·040	−·004	+·047	−·064	−·027	+·009	−·024	−·004	+·037	+·002	−·045	+·003
Punjab	Lahore	+·039	+·014	+·040	−·028	−·039	−·016	−·017	−·085	−·036	−·004	+·039	−·041	−·011
Rajputana	Jaipur	−·017	−·033	−·045	−·090	−·125	+·038	+·016	−·076	−·100	−·080	−·031	−·064	−·052
Bombay	Bombay	+·071	−·040	−·028	−·045	−·053	−·042	−·049	−·054	−·026	−·026	−·050	−·060	−·023
Mysore	Bangalore	+·048	+·005	−·020	−·022	−·051	−·013	−·010	−·026	+·010	+·001	+·028	−·079	−·011
Madras	Madras	+·040	+·030	−·001	−·024	−·040	−·054	−·053	−·077	−·047	+·005	+·040	−·087	−·022
Hill Stations, including Kashmir and Baluchistan.	Srinagar	−·003	−·010	−·020	−·018	−·132	−·067	+·013	−·063	−·056	−·011	−·027	−·022	−·035
	Katmandu	−·008	−·007	−·021	−·080	−·106	−·035	+·026	−·002	−·016	−·002	−·008	+·007	−·021
Extra India	Seychelles	+·011	−·011	−·001	−·041	−·006	+·029	−·015	+·002	...	....	....	−·001	...
	Mauritius	−·006	−·012	−·021	−·033	+·009	+·051	−·021	+·006	+·015	+·006	−·033	−·027	−·014

TABLE 21.—*Departure of the monthly and annual mean relative humidity data of 1920 from the average of past years.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Bengal	Calcutta	− 5	+ 2	+ 5	+ 2	− 7	− 9	+ 1	− 3	− 3	− 1	− 5	− 8	− 3
Punjab	Lahore	+ 6	+ 4	+ 8	0	+ 4	− 3	− 3	−10	− 6	− 3	0	− 3	− 1
Rajputana	Jaipur	− 4	− 4	− 4	− 7	− 3	+ 7	+ 4	−10	−16	−11	− 8	−14	− 6
Bombay	Bombay	+ 2	− 5	− 4	− 5	− 5	− 6	− 3	− 3	− 6	− 7	− 8	− 7	− 5
Mysore	Bangalore	+ 7	− 1	− 2	0	− 5	− 2	− 1	− 5	− 1	− 1	+ 2	−11	− 2
Madras	Madras	+ 1	− 2	− 2	− 3	− 3	− 6	−10	− 9	−10	− 2	+ 2	−11	− 5
Hill Stations, excluding Kashmir and Baluchistan.	Srinagar	+ 5	+ 7	+ 3	+ 4	−10	−10	−13	−11	−10	−12	−13	− 6	− 5
	Katmandu	− 6	− 4	− 6	−13	−13	− 9	− 2	− 1	− 2	− 3	− 3	− 1	− 5
Extra India	Seychelles	− 3	−13	− 3	− 5	− 2	− 7	− 2	− 1	...	....	....	0	....
	Mauritius	− 2	+ 1	− 2	− 2	+ 3	− 3	− 1	+ 1	+ 4	+ 1	− 1	− 1	0

TABLE 22.—*Departure of the mean monthly and annual aqueous vapour pressure from the normal in the fifteen chief political divisions of India in 1920.*

Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	"	"	"	"	"	"	"	"	"	"	"	"	"
Burma	−·001	−·006	+·003	−·043	−·028	−·023	0	−·005	−·007	−·026	−·026	+·007	−·013
Assam	+·022	+·009	+·033	−·016	−·033	−·018	+·013	−·018	−·024	−·003	−·015	+·044	−·001
Bengal	−·008	+·017	+·035	−·002	−·046	−·017	+·001	−·018	−·014	+·012	−·007	−·017	−·005
Bihar and Orissa	−·021	−·008	+·072	−·030	−·077	−·058	+·009	−·019	−·010	+·024	−·004	−·060	−·015
United Provinces	−·004	−·009	+·012	−·104	−·126	−·052	+·013	−·055	−·053	−·013	−·016	−·064	−·039
Punjab	+·024	+·006	−·007	−·064	−·094	−·031	+·016	−·102	−·069	−·016	−·008	−·056	−·036
North-West Frontier Province	+·025	+·006	+·005	−·068	−·115	+·005	+·027	−·106	−·011	+·022	+·013	−·023	−·018
Sind	+·020	+·025	+·017	−·072	−·083	−·010	0	−·030	+·012	−·011	−·030	−·075	−·020
Rajputana	+·017	+·009	−·012	−·103	−·147	+·043	−·010	−·089	−·111	−·064	−·058	−·076	−·050
Bombay	+·089	+·012	+·039	−·041	−·030	−·004	−·006	−·037	+·004	−·014	−·032	−·056	−·006
Central India	+·043	+·014	+·070	−·033	−·048	−·055	+·010	−·039	−·033	−·065	−·056	−·071	−·022
Central Provinces	+·032	−·034	−·004	−·022	−·033	−·062	−·036	−·055	−·032	−·031	−·032	−·120	−·048
Hyderabad	+·035	−·043	+·040	−·043	−·017	−·035	−·019	−·050	−·024	−·038	−·044	−·105	−·029
Mysore	+·021	−·023	+·005	−·009	−·053	−·010	−·014	−·023	+·002	−·002	+·043	−·023	−·007
Madras	+·031	+·014	+·029	−·007	−·025	−·003	−·022	−·021	+·004	+·020	+·040	−·030	+·003
Mean of India	+·021	−·001	+·020	−·045	−·064	−·023	−·003	−·042	−·027	−·020	−·022	−·043	−·021

TABLE 23.—*Departure of the mean monthly and annual relative humidity from the normal in the fifteen chief political divisions of India in 1920.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma	−1	−1	−1	−4	−2	−3	0	−1	−1	−1	−2	−4	−2
Assam	−2	−1	+5	+1	−2	−1	−2	−1	−1	0	−2	−2	−1
Bengal	−3	+2	+6	+3	−3	−3	0	−2	−1	+1	−2	−5	−1
Bihar and Orissa	−4	−2	+9	−2	−4	−7	+3	−2	−1	−2	−6	−10	−2
United Provinces	+1	−2	+1	−10	−5	−8	+4	−6	−8	−7	−7	−15	−5
Punjab	+8	+2	+1	−5	+1	+1	−2	−9	−10	−6	−5	−16	−3
North-West Frontier Province	+7	+3	−1	+3	+3	+5	−1	−8	−2	+3	−1	−6	0
Sind	−2	+3	−2	−6	−4	−2	−3	−4	−2	−2	−8	−14	−4
Rajputana	+4	+1	−1	−8	−3	+9	+4	−4	−11	−9	−10	−14	−3
Bombay	+7	+2	+4	−2	+1	+1	0	−3	−2	−2	−7	−7	−1
Central India	+7	+4	+6	−3	+2	−6	+5	−5	−7	−13	−10	−17	−3
Central Provinces	+3	−6	−2	−2	−1	−7	−2	−7	−8	−14	−16	−22	−7
Hyderabad	+4	−5	+1	−4	−3	−5	−2	−8	−7	−9	−13	−16	−6
Mysore	+3	−3	0	+1	−4	−1	−2	−2	−1	−2	+6	−7	−1
Madras	+2	0	+1	+1	−1	0	−4	−2	0	+2	+5	−1	0
Mean of India	+2	0	+2	−3	−2	−3	0	−4	−4	−4	−5	−10	−3

Cloud.

Normal values of the mean monthly and annual amount of cloud at stations in Table A have been obtained from the whole of the available data up to the end of the year 1899 and given in Tables XXXV and XXXVI of the Indian Meteorological Memoirs, Volume XVII. These means are the arithmetical averages of the cloud amounts as registered at 10 and 16 hours, and hence represent the mean amount during the day period rather than of the whole 24 hours.

The normals used in Table B are in the case of the majority of stations based on the 8 hours' records of the period 1889—1910, and are given in Volume XXII, Part III, of the Memoirs.

Departure data of this element of meteorological observation for first and second class stations for the year 1920 are given in Table 24. Table 25 gives the departures of the 8 hours cloud for the fifteen chief political divisions of India.

TABLE 24.—*Departure of the monthly and annual mean cloud amount of 1920 from the average of past years.*

DIVISION.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Bengal	Calcutta	+1·2	−0·1	+1·4	+0·6	−0·6	−0·5	+0·9	0	0	+0·3	−0·8	−1·7	+0·1
Punjab	Lahore	−0·1	−0·1	+0·7	+0·2	−0·3	−1·6	−1·7	−2·3	−1·6	−0·8	−1·0	−0·5	−0·8
Rajputana	Jaipur	−0·9	−0·8	+1·4	−0·8	+0·8	+0·1	+0·7	−2·5	−1·8	−1·4	−0·4	−1·4	−0·6
Bombay	Bombay	+1·0	−0·9	−0·4	−0·7	−0·3	−0·2	+0·6	−1·5	−1·1	+0·4	+0·3	−1·6	−0·4
Madras	Madras	+0·4	−1·5	+0·4	+0·6	−0·1	−1·5	+0·2	−0·6	+0·2	+0·3	+1·5	−2·5	−0·2
Hill Stations, excluding Kashmir and Baluchistan.	Srinagar	+2·8	+0·9	+2·3	+2·0	+1·5	+0·4	−1·5	−0·3	−1·3	−0·4	0	−0·1	+0·5
	Katmandu	−0·3	+1·5	+1·6	−0·5	+0·1	−0·1	−0·1	−0·5	−0·2	+0·1	0	−0·7	+0·1
Extra India	Seychelles	+0·1	−1·1	−0·6	+0·3	+1·2	−1·3	+0·3	−0·8	...	...	...	−0·4	...
	Mauritius	+0·4	+1·7	+0·1	+2·0	+0·6	+0·3	+1·3	+0·9	+0·1	+0·2	+0·4	+0·5	+0·7

TABLE 25.—*Departure of the mean monthly and annual cloud amount from normal in the fifteen chief political divisions of India in 1920.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma	+1·7	+0·2	+1·1	+0·2	0	+0·1	+0·6	+0·1	+0·5	+0·6	0	+0·2	+0·5
Assam	+1·0	+0·9	+2·6	−0·2	−1·3	−0·4	−1·5	−0·8	−1·0	+0·2	−0·2	+1·6	+0·1
Bengal	+0·9	+0·9	+1·6	+0·2	−0·8	−0·1	+0·2	+0·1	−0·4	+0·1	−0·5	−1·0	+0·1
Bihar and Orissa	+1·0	+0·1	+1·7	+0·3	+0·2	0	+1·3	+0·1	0	0	0	−1·0	+0·3
United Provinces	−0·2	−0·6	+1·6	−0·8	+0·2	−1·0	+1·0	−1·7	−1·7	−1·0	−0·1	−0·9	−0·4
Punjab	−0·7	−0·6	−0·1	−0·1	+0·5	+0·2	−0·9	−2·0	−1·0	−0·3	−0·6	−0·9	−0·5
North-West Frontier Province	−0·4	−0·1	−0·5	−0·6	+0·1	0	−1·2	−1·6	−0·5	−0·3	−0·9	−0·6	−0·5
Sind	−1·7	−1·0	−0·8	−1·3	−0·2	−0·8	−1·4	−1·0	−0·2	−0·4	−0·8	−1·1	−0·9
Rajputana	+0·1	−0·9	+0·6	−0·9	+0·1	+0·8	+0·2	−2·2	−1·8	−0·8	−0·2	−1·1	−0·5
Bombay	+1·0	−0·5	0	+0·3	+0·3	−0·2	+0·3	−0·6	−0·4	+0·4	+0·5	−1·0	0
Central India	+0·1	−0·4	+0·6	−0·5	−0·5	−0·6	+0·9	−1·3	−2·5	−1·6	0	−1·0	−0·5
Central Provinces	+1·0	−1·1	+0·2	+0·3	+0·6	−0·8	+0·6	−0·9	−1·5	+0·3	+0·3	−1·1	−0·3
Hyderabad	+0·7	−0·5	−0·1	+0·7	−0·1	−1·7	+0·1	−1·7	−0·4	+0·6	+1·1	−1·3	−0·2
Mysore	+0·1	−0·8	+0·5	+1·3	−0·9	−1·2	0	−0·7	−0·5	−0·9	+1·6	−2·9	−0·3
Madras	+0·3	−0·7	+0·4	+1·0	−0·2	−0·8	+0·1	−0·4	+0·4	+0·3	+1·7	−1·3	0
Mean of India	+0·5	−0·4	+0·7	+0·1	+0·1	−0·3	+0·2	−0·9	−0·7	−0·1	+0·1	−0·3	−0·1

Snowfall.

(*a*).—*The cold weather of 1919-20 and the succeeding hot weather:*—

(*a*) In Persia the winter rains began unusually late in the second week of December and in northern Persia they continued into June. Owing mainly to heavy falls throughout the country in December, January and February, and in northern Persia in April and May, the total precipitation of the period was much above normal.

(*b*) Unprecedentedly heavy snowfall was reported in Afghanistan during May; this was corroborated by the May temperature of north Baluchistan which was almost the lowest on record.

(*c*) In Baluchistan the winter precipitation began late and was much below normal in February; it was nearly normal or in excess in the other months. From November to March its amount was in defect by 1·2". But in April and May there was an excess adding up to 0·3".

(*d*) In the North-West Frontier Province the winter precipitation began later than usual, but the total, as measured at the observatories, up to the end of March was roughly normal; in April the amounts at the hill stations were above normal, but in May they were in defect. According to the reports from local officers unusually late falls of snow occurred in May in the Tochi hills; and the Samana range received appreciably more snow than usual during the first three months of the year. No information is available about snow accumulation.

(*e*) In Kashmir precipitation was in defect in November and January, nearly normal in February and May, and in large excess in March and April. The month of May was unusually cold and at the end of the month the snow accumulations on the mountains were unusually heavy. As seen from Leh the snowline was at about 13,000 feet and the passes to northern regions were still closed for traffic at the end of May.

(*f*) In Chamba the accumulations of snow were unusually heavy and none of the passes into Pangi had been crossed by the 22nd of May. On three days during May snow fell as low as 8,000 feet. In Kulu winter condition continued until the end of May and snow was falling intermittently as low as 8,500 feet. The snow accumulations were much greater than usual. On the ranges near Kilba the snow accumula-

tions were practically normal at the end of March, but very much above normal at the end of May. Eighteen inches of snow fell at 9,000 feet about the 22nd May in Chini.

(*g*) The snowfall in Garhwal was heavier than usual during May. In the Almora hills it was below the average till the end of April, but owing to heavy falls and low temperatures during May the accumulation at the end of the month was roughly normal.

(*h*) In the eastern Himalayas snowfall was very much heavier than usual on the ranges bordering on north Lakhimpur and in the Bakpara and Sadiya frontier tracts.

On the whole it appears that over the mountain area from Persia to Almora the winter precipitation began late and continued until the end of May. The snow accumulations at the end of May were probably much above normal in north Persia, Afghanistan, Kashmir and the Punjab Himalayas; but in Almora they were roughly normal.

(*B*).—*The south-west monsoon period, June to September:*—

During June snowfall was in defect in Kashmir, and in excess in the Punjab and roughly normal in the United Provinces Himalayas.

In July snowfall was in defect almost everywhere, but the accumulations at the end of the month were above normal in the Punjab, the United Provinces and the eastern Himalayas.

In August little or no snow fell in Kashmir. In the Almora district the accumulations at the end of the month were below the average on the lower ranges, and above it on the higher mountains.

During September light snow fell occasionally in Kashmir. In the Almora hills a fairly normal amount of snow fell, but the accumulations at the end of the month were below normal.

(*C*).—*The period October to December:*—

The total snowfall of October was below the average over the greater part of the Himalayas.

In November snowfall was much lighter than usual in the western Himalayas.

During December the weather was unusually dry and the snowfall of the month was below the average except in parts of Almora, where it was above normal.

Rainfall.

The rainfall data of India are now issued annually in a separate volume entitled "Rainfall of India." The twenty-eighth volume, that of 1920, contains the whole rainfall data of 2,917 stations which are there classified under their respective administrative divisions according to the following scheme:—

Province.	Number of stations.
Burma	215
Assam	125
Bengal	245
Bihár and Orissa	806
United Provinces of Agra and Oudh	274
Punjab	192
Kashmir	39
North-West Frontier Province	38
Baluchistan	84
Rajputana	182
Bombay	289
Central India	126
Central Provinces	138
Hyderabad	19
Mysore	77
Coorg	10
Madras (including Pudukkottai, Travancore and Cochin)	513
TOTAL	2,917

The information includes monthly statements of—

(*a*) the actual rainfall, day by day, of all the rainfall stations;

(*b*) the total rainfall of the month;

(*c*) the number of rainy days during the month;

(*d*) the average or normal rainfall of the month of all stations for which rainfall data of at least five years are available;

(*e*) the average or normal number of rainy days of the month for all stations for which rainfall data of five years or upwards are available.

Symon's rain-gauges are now used at all rain-gauge stations with the exception of those in Mysore. The time of measuring rainfall is 8 hours by local time throughout India, and the amounts registered give the rainfall of the previous 24 hours, and hence generally of the previous civil day.

The Tables 26 to 28 give summaries of the rainfall data of the year. The first and second tables give average rainfall data based on the returns of about 2,400 rain-gauge stations for the 15 chief political divisions and the 33 sub-divisions, respectively, while the third table (Table 28) contains data of the number of rainy days for the 33 sub-divisions for the four seasons into which the year has been divided.

The normals employed in this section are based on all the available records ending in 1915.

TABLE 26.—*Average over the 15 chief political divisions of the actual and normal rainfall for the four seasons of the year 1920, and for the whole year.*

Division.	January and February.				March to May.				June to September.				October to December.				Whole year.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"		"	"	"		"	"	"		"	"	"		"	"	"	
Burma	0·35	0·31	+0·04	+ 13	7·03	10·54	−3·51	−28	39·19	59·80	−0·61	− 1	8·39	9·23	−0·84	− 9	75·56	79·88	−4·32	− 5
Assam	2·47	2·22	+0·25	+ 11	26·34	26·75	+0·09	0	63·33	64·33	−1·00	− 2	4·84	6·62	−1·78	− 27	97·48	99·92	−2·44	− 2
Bengal	1·71	1·38	+0·33	+ 24	13·96	13·03	−0·47	− 4	55·38	54·65	+0·73	+ 1	5·72	5·72	+1·01	+ 18	76·38	74·78	+1·60	+ 2
Bihar and Orissa	0·88	1·48	−0·60	− 41	3·38	3·62	−0·24	− 6	45·47	42·13	+3·34	+ 8	0·87	3·82	−2·95	− 75	51·10	51·25	−0·15	0
United Provinces	0·84	1·68	−0·84	− 50	1·30	1·41	−0·11	− 8	28·54	33·45	−4·91	−15	0·10	1·84	−1·74	− 95	30·58	38·28	−7·70	−20
Punjab	1·43	2·05	−0·62	− 30	1·93	1·92	+0·01	+ 1	10·07	15·09	−5·02	−33	0·08	0·77	−0·69	− 90	13·51	19·83	−6·32	−32
North-West Frontier Province	2·46	2·87	−0·41	− 14	3·93	4·50	−0·58	−13	4·17	8·14	−3·97	−49	0·21	1·31	−1·10	− 84	10·76	16·82	−6·06	−36
Sind	0·43	0·54	−0·11	− 20	0·67	0·47	+0·20	+43	1·01	5·33	−4·32	−81	0·01	0·17	−0·16	− 94	2·12	6·51	−4·39	−67
Rajputana	0·46	0·65	−0·19	− 29	1·01	0·81	+0·80	+99	15·90	18·45	−2·55	−14	0	0·72	−0·72	−100	17·37	20·63	−3·26	−13
Bombay	1·23	0·17	+1·06	+624	1·34	1·42	−0·08	− 6	29·87	40·49	−10·62	−26	1·28	3·24	−1·96	− 60	33·72	45·32	−11·60	−26
Central India	0·90	0·81	+0·09	+ 11	0·96	0·78	+0·18	+23	24·83	31·40	− 6·57	−21	0	1·36	−1·36	−100	26·69	34·35	−7·66	−22
Central Provinces	1·11	1·07	+0·04	+ 4	1·38	1·56	−0·18	−12	27·87	39·82	−11·95	−30	0·03	2·50	−2·47	− 99	30·39	43·95	−14·56	−33
Hyderabad	0·96	0·35	+0·61	+146	1·56	1·76	−0·20	−11	14·54	26·71	−12·17	−46	0·69	3·68	−2·99	− 81	17·85	33·50	−14·65	−46
	0·43	0·22	+0·21	+ 95	3·78	5·38	−1·62	−30	19·68	22·44	−2·76	−12	4·96	9·05	−3·09	− 33	28·83	34·09	−5·26	−20
	3·26	0·96	+2·30	+240	5·41	5·82	−0·41	− 7	28·20	28·23	−0·03	0	19·16	15·32	+3·85	+ 25	56·03	50·32	+5·71	+11
Mean of India	1·19	1·00	+0·19	+ 19	4·28	4·69	−0·41	− 9	30·72	35·03	−4·31	−12	3·98	4·87	−0·89	− 18	40·17	45·39	−5·42	−12

TABLE 27.—*Average over the 33 sub-divisions of the actual and normal rainfall for the four seasons of the year 1920, and for the whole year.*

SUB-DIVISION.	JANUARY AND FEBRUARY.				MARCH TO MAY.				JUNE TO SEPTEMBER.				OCTOBER TO DECEMBER.				WHOLE YEAR.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"		"	"	"		"	"	"		"	"	"		"	"	"	
1. Bay Islands	2·77	1·45	+1·32	+91	5·95	10·80	−4·85	−45	49·07	49·43	− 0·36	− 1	15·65	16·19	−0·54	− 3	73·44	77·87	−4·43	− 6
2. Lower Burma	0·50	0·41	+0·09	+22	10·07	15·22	−5·15	−34	112·42	105·89	+ 6·53	+ 6	11·09	11·05	+0·03	+ 3	134·08	132·58	+ 2·40	+ 2
3. Upper Burma	0·25	0·24	+0·01	+ 4	6·04	7·48	−1·44	−19	24·42	29·68	− 5·26	−18	5·79	7·91	−2·13	−27	36·50	45·31	− 8·81	−19
4. Assam	2·47	2·22	+0·25	+11	26·84	26·75	+0·09	0	63·33	64·33	− 1·00	− 2	4·84	6·62	−1·78	−27	97·48	99·92	− 2·44	− 2
5. Bengal	1·71	1·38	+0·33	+24	12·56	13·03	−0·47	− 4	55·38	54·65	+ 0·73	+ 1	5·73	5·72	+1·01	+18	76·38	74·78	+ 1·60	+ 2
6. Orissa	1·17	1·48	−0·31	−21	5·93	5·63	+0·35	+ 6	50·05	44·53	+ 5·52	+12	2·73	5·77	−3·04	−53	59·03	57·41	+ 2·53	+ 4
7. Chota Nagpur	0·84	2·03	−1·19	−59	4·42	3·69	+0·73	+20	50·95	42·13	+ 8·82	+21	0·13	2·80	−2·67	−95	56·34	50·65	+ 5·69	+11
8. Bihar	0·77	1·21	−0·44	−36	2·09	3·62	−0·93	−26	40·20	41·09	− 0·19	0	0·35	2·83	−2·48	−88	41·71	48·75	− 4·04	− 8
9. United Provinces, East	0·47	1·21	−0·74	−61	1·03	1·21	−0·18	−15	30·05	34·42	− 4·37	−13	0·09	2·38	−2·29	−96	31·64	39·22	− 7·58	−19
10. Do. do., West	0·79	1·90	−1·11	−58	1·52	1·57	−0·05	− 3	27·24	32·63	− 5·38	−16	0·11	1·37	−1·26	−92	29·66	37·46	− 7·80	−21
11. Punjab, East and North	1·58	2·35	−0·77	−33	2·03	2·07	−0·04	− 2	17·92	17·78	− 5·86	−33	0·09	0·90	−0·81	−90	15·62	23·10	− 7·48	−32
12. Do., Southwest	0·97	1·10	−0·13	−12	1·59	1·50	+0·09	+ 6	4·15	6·49	− 2·34	−36	0·06	0·39	−0·33	−85	6·77	9·50	− 2·73	−29
13. Kashmir	6·69	8·02	−1·33	−17	12·64	9·71	+2·93	+30	11·68	21·45	− 9·77	−46	1·41	3·42	−2·01	−59	32·42	42·60	−10·18	−24
14. North-West Frontier Province.	2·46	2·87	−0·41	−14	3·02	4·60	−0·58	−13	4·17	8·14	− 3·97	−49	0·21	1·31	−1·10	−84	10·76	16·62	− 6·06	−36
15. Baluchistan	1·99	2·95	−0·96	−33	1·76	2·33	−0·57	−24	0·82	2·32	− 1·50	−65	0·34	1·30	−0·96	−74	4·91	8·90	− 3·99	−45
16. Sind	0·43	0·74	−0·11	−20	0·67	0·47	+0·20	+43	1·01	5·33	− 4·32	−81	0·01	0·17	−0·16	−94	2·12	6·51	− 4·39	−67
17. Rajputana, West	0·17	0·48	−0·31	−65	2·13	0·67	+1·46	+218	8·17	10·31	− 2·14	−21	0	0·39	−0·39	−100	10·47	11·85	− 1·38	−12
18. Do., East	0·62	0·74	−0·12	−16	1·40	0·86	+0·54	+63	19·35	22·17	− 2·82	−13	0·01	0·85	−0·84	−99	21·38	24·62	− 3·24	−13
19. Gujarat	1·51	0·16	+1·35	+844	1·78	0·28	+1·50	+536	22·92	31·10	− 8·18	−26	0	0·90	−0·90	−100	26·21	32·44	− 6·23	−19
20. Central India, West	1·36	0·60	+0·76	+127	0·50	0·71	−0·21	−30	25·06	29·57	− 4·51	−15	0	1·21	−1·21	−100	26·92	32·09	− 5·17	−16
21. Do. do., East	0·16	1·16	−1·00	−86	1·30	0·94	+0·36	+38	24·53	34·72	−10·19	−29	0	1·60	−1·60	−100	25·99	38·42	−12·43	−32
22. Berar	2·07	0·64	+1·43	+223	0·27	1·02	−0·75	−74	13·63	28·24	−14·61	−52	0·03	2·48	−2·45	−99	16·00	32·38	−16·38	−51
23. Central Provinces, West	1·73	1·11	+0·62	+56	1·20	1·28	−0·08	− 6	29·99	40·60	−10·61	−26	0	2·38	−2·38	−100	32·92	45·37	−12·45	−27
24. Do. do., East	0·16	1·30	−1·14	−88	2·17	2·07	+0·10	+ 5	35·01	46·34	−11·33	−24	0·04	2·59	−2·55	−98	37·38	52·30	−14·92	−29
25. Konkan	0·64	0·13	+0·51	+392	0·81	1·74	−0·93	−53	72·87	101·85	−28·98	−28	2·68	4·03	−2·25	−45	77·00	108·65	−31·65	−29
26. Bombay Deccan	1·25	0·19	+1·06	+558	1·24	2·07	−0·83	−40	18·83	24·55	− 5·72	−23	1·61	4·15	−2·52	−61	22·93	30·94	− 8·01	−26
27. Hyderabad, North	0·69	0·33	+0·36	+170	0·70	1·48	−0·78	−53	14·54	29·24	−14·70	−50	0·15	3·43	−3·28	−96	16·28	34·48	−18·20	−53
28. Do., South	0·83	0·38	+0·45	+118	2·53	2·08	+0·45	+22	14·53	23·89	− 9·36	−39	1·30	3·96	−2·66	−67	19·19	30·31	−11·12	−37
29. Mysore	0·43	0·22	+0·21	+95	3·76	5·38	−1·62	−30	19·88	22·44	− 2·76	−12	4·96	8·05	−3·09	−38	28·83	36·09	− 7·26	+20
30. Malabar	1·65	1·09	+0·56	+51	11·22	12·31	−1·09	− 9	83·79	72·14	+11·65	+16	25·82	19·74	+6·08	+31	122·48	105·28	+17·20	+16
31. Madras, Southeast	5·73	1·23	+4·50	+366	4·48	4·37	+0·11	+ 3	11·39	11·71	− 0·32	− 3	24·58	17·65	+7·23	+41	46·48	34·96	+11·52	+33
32. Do., Deccan	1·10	0·26	+0·84	+323	1·26	2·46	−1·20	−49	10·67	15·12	− 4·45	−29	3·91	6·57	−2·66	−40	16·94	24·41	− 7·47	−31
33. Do., Coast, North	1·13	0·69	+0·44	+64	3·60	3·49	+0·11	+ 3	17·48	25·24	− 7·76	−31	9·63	10·94	−1·31	−12	31·84	40·36	− 8·52	−21

TABLE 28.—*Average over the 33 sub-divisions of the actual and normal number of rainy days for the four seasons of the year 1920, and for the whole year.*

SUB-DIVISION.	JANUARY AND FEBRUARY.			MARCH TO MAY.			JUNE TO SEPTEMBER.			OCTOBER TO DECEMBER.			WHOLE YEAR.		
	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.
1. Bay Islands	3·0	1·9	+1·1	9·0	13·3	−4·3	57·7	62·2	−4·5	22·3	20·0	+ 2·3	92·0	97·4	−5·4
2. Lower Burma	0·7	0·8	−0·1	12·5	16·2	−3·7	80·8	91·1	−10·3	15·0	14·6	+0·4	119·0	122·7	−3·7
3. Upper Burma	0·9	0·7	+0·2	7·4	11·2	−3·8	35·5	42·2	−6·7	8·6	11·3	−2·7	52·4	65·4	−13·0
4. Assam	5·1	5·0	+0·1	28·8	32·9	+5·9	65·2	67·9	+0·3	7·2	8·9	−1·7	110·3	114·7	+4·6
5. Bengal	3·0	2·5	+0·5	14·8	16·3	−1·5	58·2	59·4	−1·2	5·3	6·4	−1·1	81·3	91·6	−3·2
6. Orissa	2·0	2·5	−0·5	5·5	9·3	−3·5	53·1	53·8	−0·7	3·0	6·8	−3·8	63·9	72·4	− 8·5
7. Chota Nagpur	2·2	3·7	−1·5	9·1	7·0	+2·1	53·0	51·7	+1·9	0·3	4·4	−4·1	65·2	66·8	− 1·6
8. Bihar	1·9	2·7	−0·8	4·9	5·9	−1·0	46·7	44·4	+1·3	0·7	3·5	−2·8	53·2	56·5	−3·3
9. United Provinces, East	1·4	2·7	−1·3	2·5	2·5	−0·2	36·6	37·8	−1·2	0·3	2·6	−2·3	41·0	45·9	−4·9
10. Do. do., West	2·3	3·7	−1·4	3·8	3·4	+0·3	29·0	33·3	−4·7	0·2	1·9	−1·7	35·2	42·6	−7·4
11. Punjab, East and North	3·5	4·5	−1·0	4·8	4·4	+0·4	19·6	19·5	−0·2	0·3	1·7	−1·4	28·2	30·1	−6·9
12. Do., Southwest	2·4	2·7	+0·3	4·6	3·6	+1·0	5·9	5·4	+2·5	0·2	0·9	−0·7	13·1	15·6	−2·5
13. Kashmir	10·9	10·8	+0·1	18·9	15·3	+3·6	18·6	24·6	−6·0	2·8	5·7	−2·9	51·2	56·4	−5·2
14. North-West Frontier Province	6·2	5·7	+0·5	8·6	9·0	−0·4	7·9	11·7	−3·8	0·9	2·5	−1·6	23·6	29·0	−5·5
15. Baluchistan	5·0	6·3	−1·3	4·3	5·5	−1·2	1·8	4·0	−2·2	0·8	3·1	−2·3	11·9	18·9	−7·0
16. Sind	1·4	1·5	−0·1	1·9	1·0	+0·9	1·9	6·1	−4·2	0·1	0·3	−0·2	5·3	8·9	−3·6
17. Rajputana, West	0·7	0·9	−0·2	3·9	1·6	+2·3	10·9	13·7	−2·7	0	0·8	−0·8	14·6	17·0	−2·4
18. Do., East	1·9	1·8	+0·2	2·8	2·2	+0·6	21·8	27·1	−5·3	0	1·4	−1·4	26·2	32·5	−6·3
19. Gujarat	1·7	0·3	+1·4	3·2	0·6	+2·6	29·9	33·5	−4·6	0	1·3	−1·3	34·8	36·2	−1·9
20. Central India, West	2·0	1·3	+0·7	1·6	1·7	−0·1	29·2	34·8	−5·6	0	2·0	−2·0	33·8	39·8	− 7·0
21. Do. do., East	0·6	2·5	−1·9	2·8	3·2	+0·6	30·8	37·1	−6·3	0	2·3	−2·3	34·2	44·1	− 9·9
22. Berar	3·0	1·3	+1·7	1·0	2·4	−1·4	23·8	38·4	−14·6	0·1	3·8	−3·7	27·9	45·9	−18·0
23. Central Provinces, West	2·1	2·2	−0·1	2·7	3·0	−0·3	34·5	47·0	−12·5	0	3·5	−3·5	39·3	55·7	−16·4
24. Do, do., East	0·4	2·3	−1·9	5·2	4·3	+0·9	41·3	51·0	−9·7	0·1	3·8	−3·7	47·0	61·4	−14·4
25. Konkan	1·4	0·2	+1·2	1·6	2·4	−0·8	82·9	83·7	−0·8	3·9	6·9	−3·0	89·8	93·2	−3·4
26. Bombay Deccan	1·7	0·1	+1·3	2·3	4·0	−1·7	33·5	37·1	−4·6	2·7	6·4	−3·7	39·2	47·9	−8·7
27. Hyderabad, North	1·6	0·8	+0·8	2·5	3·3	−0·8	25·6	40·5	−15·8	0·5	5·1	−4·6	29·8	49·6	−20·2
28. Do., South	0·9	0·8	+0·1	4·3	4·2	+0·2	24·1	37·6	−13·5	2·8	6·2	−3·4	32·1	48·8	−16·7
29. Mysore	1·0	0·4	+0·6	6·5	9·0	−2·5	33·0	33·5	−0·5	9·1	13·2	−3·1	49·6	55·1	−5·5
30. Malabar	2·5	1·7	+0·8	16·2	16·2	0	77·1	70·8	+6·3	17·2	23·7	−6·5	113·0	112·4	+ 0·6
31. Madras, Southeast	5·1	1·8	+3·3	6·7	6·6	+0·1	18·1	18·1	0	25·2	21·1	+4·1	55·1	47·6	+7·5
32. Do, Deccan	1·4	0·5	+0·9	3·4	4·4	−1·0	19·3	25·4	−6·1	7·6	9·6	−2·0	30·7	39·9	−9·2
33. Do. Coast, North	1·7	1·1	+0·6	5·3	5·5	−0·2	28·5	36·0	−7·5	9·3	11·2	−1·9	44·8	53·8	−9·0

I. *The cold weather period.*—Five winter disturbances entered northern India in January, but the resulting precipitation was much below the average. An improvement occurred in February, when four disturbances appeared from the west and proved much more active than those of January. For the two months together, however, rainfall was greatly in defect over the whole area from the northwest frontier to Bihar and Orissa. Conditions were different in the Peninsula, as the monsoon persisted much longer than usual and caused exceptionally heavy rainfall in south India in January.

The aggregate fall of the period was above normal in the Bay Islands, Lower Burma, Assam, Bengal, Gujarat, Central India West, Berar, the Central Provinces West and the Peninsula, and was in defect elsewhere.

II. *The hot weather period.*—Five disturbances of the winter type entered northern India during March, and rain fell frequently in the tract of country extending from the North-West Frontier Province to Assam. The falls were greatly above the average in Kashmir, and extraordinarily heavy in northeast India; for the latter area the month was the wettest on record. In the Peninsula on the other hand the usual thundershowers were almost entirely absent. In the month of April weather was abnormally dry over the greater part of the country; the rainfall associated with the six disturbances that affected northern India was confined mainly to the hills, and thundershowers were less frequent than usual except in the south of the Peninsula. During May four western disturbances passed into northwest India; the third of these, in conjunction with a pressure distribution favouring the inflow of moist winds from the Indian seas, gave widespread rainfall in northern and central India between the 22nd and 26th. The month's fall was below normal in northeast India and the Peninsula. The monsoon made an effort on the 28th May to appear at Colombo, but the advance was feeble and died out on the 31st.

The aggregate rainfall of the season was above normal in Chota Nagpur, Kashmir, Sind, Rajputana, Gujarat, Central India East and Hyderabad South, the excess being 1·46″ or 218 per cent. in Rajputana West and 1·50″ or 536 per cent. in Gujarat. It was below normal in Burma, Bihar, the United Provinces East, the North-West Frontier Province, Baluchistan, Central India West, Berar, the Konkan, the Bombay Deccan, Hyderabad North, Mysore and the Madras Deccan, and was about the average over the rest of the country.

III. *The southwest monsoon period.*—The monsoon appeared on the Malabar coast on the 2nd June, which is about the usual time, and advanced at the normal rate up to the Konkan coast; but it was prevented from extending into the interior of the Peninsula by the formation on the 6th of a severe storm off the Canara coast in the Arabian Sea. The storm moved in a northerly direction, and crossing into Kathiawar on the 11th caused great damage to property there, besides stopping all traffic while it lasted; it, however, introduced the monsoon rains into northwest India at a much earlier date than usual. The monsoon did not arrive effectively in the interior of the Peninsula until the 19th, when the Arabian Sea current was stimulated by a depression that had formed near the head of the Bay. The Bay monsoon appeared in northeast India in the middle of the second week, and extended into the United Provinces on the 21st. For the next four days there was widespread rain from Rajputana and the east Punjab to Assam, but during the last five days of the month a break occurred over the greater part of the country. Both the currents strengthened somewhat on the 2nd July, and they continued active till the 5th August in Central India, Rajputana and the Gangetic plain. After this date the Arabian Sea monsoon weakened and was less active than usual, except for four days from the 7th September when fairly widespread rain fell in the United Provinces and the central parts of the country. The Bay monsoon on the other hand continued normally active and in connection with two depressions, one at the end of the first week of August and the other between the 7th and the 10th September, caused heavy rain and serious floods in Bihar and Bengal. During the last twenty days of September the monsoon rarely extended beyond Burma, northeast India and the Peninsula.

It is remarkable that of the depressions which formed at the head of the Bay during this period not one travelled westwards beyond the Central Provinces; they either disappeared shortly after crossing the coast, or moved northwest towards the west of the United Provinces and later in the season, northwards into Bihar and Bengal. Several western disturbances appeared in northwest India, and besides giving rain in the hill districts there, stimulated occasionally the activity of the monsoon in the plains.

The aggregate rainfall of the season was in excess in Orissa, Chota Nagpur and Malabar, about normal in the Bay Islands, Lower Burma, Assam, Bengal, Bihar and southeast Madras, and below normal everywhere else. The deficiency was considerable in the Punjab, Kashmir, the North-West Frontier Province, Baluchistan, Sind, Berar and Hyderabad. Averaged over the plains of India as a whole it was 4·31″, or 12 per cent. below normal.

IV. *The retreating southwest monsoon period.*—During October the monsoon was weak and its activity was chiefly controlled by two depressions in the Bay. These determined an excess of rainfall in the Bay Islands, Lower Burma, Bengal, Malabar and the Madras Coast North, while much less rain than usual fell over the rest of the country. During November the monsoon produced abnormally heavy rain in south Madras, but outside that area the weather was unusually dry. The month of December was rainless or nearly so over the greater part of India. Although several disturbances of the winter type passed into India from the west during this period, the associated precipitation was mostly confined to the hills in the extreme north, and even there was far below the average.

The aggregate rainfall of the period was in excess in Bengal and South Madras, and was in defect everywhere else. Hardly any rain fell in Sind, Rajputana, Gujarat, Central India and the Central Provinces.

The year.—I. The distribution during the cold weather period—January and February—was very abnormal; rainfall was greatly in defect over the greater part of Northern India, and very much in excess in the Peninsula.

II. The influence of western disturbances contributed to the rainfall in Northern India in March and May, and the amount of rain there during the hot weather months differed little from the average. In the Peninsula, however, there was an appreciable defect.

III. The Bombay branch of the monsoon withdrew much earlier than usual, and the rainfall of the period—June to September—was very much below the average over the field of its activity. For the plains of India as a whole the deficiency was 12 per cent.

IV. The total fall of the period—October to December—was greatly below normal except in Bengal and south Madras.

V. The year's fall was in defect over most of the country, the only exceptions being south Madras and parts of northeast India.

V. DORAISWAMY IYER.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 13 stations in India, etc., in the year 1920.

TABLE

Abstract of observations taken at 10 hrs. and 16 hrs.

Number of sub-division.	Station.	Height of bar-ctern above sea-level in feet.	Pressure.						Temperature of air.									
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea-level and to gravity at 45° Lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	III.—Bengal.																	
5	Calcutta	21	29·827	29·712	·115	29·767	−·021	29·736	87·7	71·7	16·0	105·4	50·4	55·0	81·8	85·2	79·2	+1·2
	VI.—Punjab.																	
11	Lahore	702	29·109	29·015	·094	29·055	−·016	29·724	89·0	63·0	26·0	112·8	34·2	78·6	78·2	87·9	74·9	+0·2
	IX.—Rajputana.																	
18	Jaipur	1,431	28·140	28·039	·101	28·383	+·006	29·746	90·4	63·9	26·5	111·7	33·2	78·5	82·0	88·3	75·9	−1·2
	X.—Bombay.																	
25	Bombay	37	29·876	29·775	·101	29·823	−·004	29·810	87·2	76·1	11·1	94·4	62·3	32·1	81·4	83·8	80·6	+1·3
	XIV.—Mysore.																	
29	Bangalore	3,021	26·965	26·853	·112	26·912	+·011	29·731	85·6	64·6	21·0	98·8	50·1	48·7	77·2	82·5	73·7	+0·9
	XV.—Madras.																	
31	Trivandrum	196	29·747	29·644	·103	29·700	+·010	29·827	84·1	74·7	9·4	91·1	68·1	23·0	80·8	83·3	78·3	−0·3
	Pudukkottai	318	29·614	29·477	·137	29·545	...	29·709	93·6	74·7	18·3	107·2	63·9	43·3	84·9	89·9	83·8	...
	Madras	22	29·887	29·771	·116	29·833	−·010	29·798	92·0	76·0	16·0	106·7	69·2	45·9	86·7	87·3	83·9	+1·1
	Kashmir.																	
13	Srinagar	5,204	24·894	24·827	·067	24·851	...	24·822	64·3	42·6	21·7	94·8	8·7	86·1	55·2	63·2	53·5	...
	Hill stations, excluding Kashmir and Baluchistan.																	
	Katmandu	4,388	25·643	25·579	·064	25·608	+·043	25·562	78·7	53·6	25·1	95·6	30·8	64·8	68·1	74·2	65·8	+1·2
	Kodaikanal	7,088	22·844	22·782	·062	22·813	...	22·748	65·6	50·6	15·0	75·5	40·3	35·2	62·2	69·7	58·1	...
	Extra India.																	
	Seychelles	15*	29·989	29·904	·085	29·951	+·007	29·914	83·3	77·8	5·5	88·1	73·8	14·5	81·1	88·1	79·3	+1·1
	Mauritius	181	...	...	...	29·887	+·003	29·958	80·0	66·5	14·1	91·2	51·8	39·4	...	...	72·8	−0·7

NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,500 feet.
* Mean of 9 months.

A.

at 13 stations in India, etc., in the year 1920.

Temperature, Wet-bulb.				Vapour tension in inches of mercury.					Humidity.					Cloud.				Rainfall.		Station.	Number of sub-division.
Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of 24-daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Total rainfall for the year.	Heaviest rainfall during the year.		
20	21	22	23	24	25	26	27	28	29	30	31	33	33	34	35	36	37	38	39	40	41
																				III.—Bengal.	
69·2	74·2	74·3	72·5	·707	·767	·720	·747	+·003	87	69	59	74	— 3	4·4	4·8	4·6	0	63·77	8·02	Calcutta	5
																				VI.—Punjab.	
59·5	65·2	66·7	63·8	·450	·486	·471	·469	—·018	73	50	36	55	— 1	2·0	2·2	2·1	—0·9	10·64	4·69	Lahore	11
																				IX.—Rajputana.	
67·1	64·3	66·0	63·5	·421	·411	·363	·413	—·053	64	37	29	47	— 6	2·7	3·4	3·1	—0·6	21·31	5·08	Jaipur	18
																				X.—Bombay.	
69·9	74·6	76·1	73·5	·653	·770	·797	·758	—·034	71	71	69	73	— 5	3·7	3·3	3·5	—0·3	41·05	7·18	Bombay	25
																				XIV.—Mysore.	
63·3	66·9	67·0	65·4	·539	·543	·483	·531	—·011	88	60	46	66	— 2	5·4	6·0	5·7	...	25·99	1·83	Bangalore	29
																				XV.—Madras.	
72·2*	75·3	76·2	74·4*	·760*	·803	·821	·802*	...	92*	77	75	87*	...	7·0	7·1	7·1	+1·6	94·06	5·94	Trivandrum	31
...	74·6	75·6	...	...	·695	·672	...	...	...	79	69	...	...	4·5	5·5	5·0	...	51·77	6·35	Pedukkottai.	
72·7	76·3	76·6	75·2	·765	·767	·776	·765	—·024	86	61	61	72	— 4	5·1	4·6	4·9	—0·1	65·31	5·92	Madras.	
																				Kashmir.	
41·5	49·4	53·7	48·5	·282	·339	·363	·328	...	90	71	61	75	...	4·8	5·3	5·1	...	24·19	2·76	Srinagar.	13
																				Hill stations, excluding Kashmir and Baluchistan.	
51·1	60·0	62·6	57·9	·375	·453	·454	·428	—·031	93	64	53	68	— 5	4·1	5·2	4·7	+0·2	35·34	2·25	Katmandu.	
46·8	54·3	55·1	52·1	·296	·345	·387	·340	...	77	64	77	73	...	5·4	7·6	6·5	...	65·46	3·03	Kodaikanal.	
																				Extra India.	
71·8	75·7	75·6	74·4	·703	·820	·801	·704	—·018	74	77	73	77	— 4	5·9	6·2	6·1	—0·17	76·21	19·07	Seychelles.	
...	...	...	...	...	...	...	·615	—·005	...	...	...	75	0	...	...	6·0	...	50·36	3·33	Mauritius.	

* Mean of 4 months. † Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 213 stations in India, etc., in the year 1920.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,500 stations.

Division.	Pressure departure from normal of year.	Temperature of air.							Wind	Hygrometry.				Cloud.		Rainfall.		
		Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Departure of velocity from normal.	Mean humidity of year.	Departure from normal of year.	Mean vapour tension of year.	Departure from normal of year.	Mean cloud amount of year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.
	"	°	°	°	°	°	°	°				"	"			"	"	"
Burma	—·011	85·0	+0·3	71·0	+0·3	79·5	+0·3	17·6	+0·1	83	—2	·748	—·013	3·5	+0·5	75·56	79·88	—4·32
Assam	·009	83·5	-0·1	66·2	+0·4	75·0	+0·1	17·1	+0·1	89	—1	·699	—·001	5·4	+0·1	97·48	99·92	—2·44
Bengal	—·012	96·3	0	69·9	+0·3	78·1	+0·1	16·4	—0·3	84	—1	·747	—·005	4·5	+0·1	76·38	74·78	+1·60
Bihar and Orissa	—·006	88·9	+0·5	68·6	0	78·7	+0·3	20·3	+0·1	73	—2	·649	—·015	3·8	+0·3	51·10	51·25	—0·15
United Provinces of Agra and Oudh	—·002	90·1	+0·9	65·7	—0·5	77·9	+0·2	24·4	—0·3	63	—5	·538	—·039	2·4	—0·4	30·58	38·28	—7·70
Punjab	—·006	88·8	—0·1	62·8	—0·3	75·8	—0·2	25·9	+0·4	59	—3	·460	—·033	2·1	—0·5	13·51	19·83	—6·32
North-West Frontier Province	—·014	88·1	+0·5	60·9	+0·1	74·6	+0·3	27·3	—0·8	64	0	·466	—·018	1·9	—0·5	10·76	16·82	—6·06
Sind	—·003	91·1	+0·2	5·8	+0·6	79·9	+0·4	22·3	—1·1	60	—4	·562	—·020	1·7	—0·9	2·12	6·51	—4·39
Rajputana	+·002	91·1	—0·3	5·3	—1·5	78·5	—0·9	25·2	0	51	—3	·433	—·050	2·3	—0·5	17·97	20·63	—2·66
Bombay	—·005	90·3	+··	·3	+0·4	79·8	+0·7	20·9	—1·2	67	—1	·615	—·006	3·6	0	33·72	45·32	—11·60
Central India	—·003	88·9	+·4	4·5	—0·5	76·7	—0·1	24·6	—0·9	59	—3	·501	—·022	2·9	—0·5	26·69	34·35	—7·66
Central Provinces	+·001	90·8	+0·9	66·9	0	78·8	+0·5	23·8	+0·3	55	—7	·484	—·048	3·1	—0·2	30·29	44·95	—14·56
Hyderabad	+·005	93·8	+2·2	70·1	+0·7	81·9	+1·5	23·7	+0·2	58	—6	552	—·029	3·5	—0·2	17·65	32·50	—14·85
Mysore	0	85·9	+0·7	65·5	+0·5	75·7	+0·6	20·4	+0·3	75	—1	·579	—·007	5·0	—0·3	28·83	36·09	—7·26
Madras	—·001	90·6	+0·1	74·5	+0·6	82·6	+0·4	16·1	+0·1	76	0	·769	+·003	4·6	0	56·03	50·32	+5·71

TABLE

(2) *Abstract of observations taken at 8 hrs. at 213*

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.					Temperature of air.									
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of year.	Lowest pressure of year.	Mean of 8 hrs. dry bulb of year.	Mean of 8 hrs. wet bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	I.—Burma.																	
2	Victoria Point	147	29·777	...	29·855	29·919	29·614	79·4	75·3	86·1	...	73·1	...	80·6	...	11·0	90·6	66·4
	Mergui	66	29·858	—·010	29·854	30·028	29·649	77·5	74·7	87·4	—0·1	23·4	+1·6	80·4	+0·7	14·1	96·6	62·1
	Tavoy	19	29·900	—·023	29·851	30·068	29·630	76·9	74·0	88·2	+0·4	72·3	+0·7	80·3	+0·5	16·0	99·9	56·3
	Moulmein	77	29·839	—·007	29·855	30·078	29·537	76·8	73·5	87·4	—0·7	73·0	+0·5	80·2	—0·1	14·4	99·0	60·1
	Rangoon	18	29·887	—·005	29·842	30·107	29·565	76·9	74·1	89·3	0	73·3	+0·3	81·3	0·1	16·1	99·3	60·9
	Bassein	27	29·881	0	29·845	30·111	29·595	76·5	74·7	89·2	+1·1	72·1	—0·4	80·7	+0·3	17·1	102·2	57·0
	Diamond Island	41	29·847	—·018	29·823	30·056	29·521	81·3	76·3	96·1	+0·8	76·7	+1·0	81·4	+0·9	9·3	99·1	69·8
	Toungoo	164	29·741	—·001	29·845	29·985	29·420	76·5	73·1	89·4	+0·7	69·2	—1·3	79·3	—1·0	20·2	104·5	49·1
	Kyaukpyu	18	29·852	...	29·810	30·006	29·445	77·7	74·4	84·8	...	73·4	...	79·1	...	11·3	95·5	58·6
	Akyab	20	29·839	—·028	29·800	30·107	29·400	75·3	72·6	85·2	—0·7	70·4	—1·7	77·8	—1·2	14·8	95·4	50·8
3	Minbu	165	29·702	—·023	29·812	29·983	29·330	76·7	71·0	91·4	—0·2	71·0	+0·5	81·7	+0·1	19·4	109·4	53·7
	Yamethin	644	29·231	—·010	29·830	29·478	29·878	75·7	70·4	91·6	+0·3	70·2	+0·6	80·9	+0·5	21·4	105·9	51·1
	Mandalay	250	29·628	—·006	29·827	29·915	29·308	79·1	71·0	94·4	+1·5	71·8	+0·5	83·0	+1·1	22·6	109·1	49·0
	Monywa	280	29·605	—·005	29·827	29·887	29·279	76·6	70·4	93·3	+2·1	71·7	+0·6	82·5	+1·3	21·6	109·6	49·2
	Lashio	2,890	27·101	—·008	27·067	27·360	26·804	66·2	62·2	81·5	—0·6	50·8	+0·5	71·1	—0·1	20·8	94·6	35·6
	Bhamo	361	29·501	—·005	29·824	29·807	29·193	69·8	68·4	86·3	+0·2	55·0	+0·3	76·1	+0·6	20·4	100·8	41·5
	Myitkyina	463	29·395	—·015	29·827	29·604	29·039	69·1	66·7	84·3	0	65·4	—0·1	74·9	—0·2	18·9	99·4	46·2
	II.—Assam.																	
4	Dibrugarh	353	29·514	—·021	29·837	29·842	29·072	69·4	67·9	81·3	+0·5	65·5	+0·6	73·4	+0·5	15·8	96·3	45·3
	Sibsagar	333	29·537	—·026	29·838	29·895	29·121	68·8	67·5	80·1	—1·4	66·7	+0·9	73·4	—0·3	13·5	94·4	47·1
	Tezpur	252	29·631	+·007	29·847	29·982	29·232	70·0	67·9	83·3	+0·2	67·2	+0·4	75·2	+0·3	16·2	96·0	45·6
	Gauhati	196	29·683	—·007	29·839	30·010	29·265	72·0	69·3	84·6	0	66·8	+0·9	75·7	+0·5	17·8	97·4	41·5
	Dhubri	115	29·740	—·011	29·812	30·060	29·302	71·9	69·2	91·7	—1·2	66·7	+0·3	75·2	—0·2	13·0	96·1	45·3
	Silchar	104	29·793	+·005	29·849	30·000	29·317	74·0	72·2	86·2	0	67·3	—0·2	76·7	—0·1	18·8	97·8	45·5
	Srimangal	66	29·809	...	29·826	30·005	29·344	74·1	68·7	87·7	+0·2	63·4	—2·1	75·6	—0·9	24·3	98·5	39·1
	III.—Bengal.																	
5	Cox's Bazar	36	29·828	...	29·809	30·008	29·300	75·7	72·7	85·2	...	69·4	...	77·3	...	15·7	92·5	50·9
	Chittagong	87	29·778	—·011	29·812	30·072	29·301	73·7	71·4	85·5	+0·7	69·1	—0·3	77·3	+0·2	16·5	94·7	48·1
	Noakhali	43	29·826	0	29·817	30·120	29·357	75·5	72·6	85·0	+0·4	70·9	+2·0?	77·9	+1·2?	14·0	93·8	49·4
	Barisal	12	29·835	—·012	29·795	30·141	29·326	76·3	73·3	85·6	—0·3	70·8	+0·5	78·2	+0·1	14·8	96·7	49·3
	Narayanganj	26	29·826	—·011	29·801	30·136	29·360	75·8	71·9	85·6	—0·7	70·7	+0·2	78·1	—0·3	15·0	96·1	50·8
	Mymensingh	63	29·791	—·012	29·807	30·097	29·340	73·4	70·3	85·0	+0·3	69·6	+1·0	77·3	+0·7	15·4	97·0	46·1
	Bogra	75	29·769	—·015	29·797	30·094	29·321	73·2	70·5	86·0	—0·3	68·4	+0·3	77·2	0	17·6	100·4	45·2
	Dinajpur	123	29·710	—·018	29·790	30·046	29·265	72·3	68·8	85·9	—0·2	67·5	+0·9	76·7	+0·3	18·4	101·8	44·9
	Jalpaiguri	283	29·573	—·005	29·830	29·909	29·188	70·7	68·1	84·8	+0·8	66·9	+0·8	75·9	+0·8	17·9	98·3	43·9
	Saugor Island	10	29·826	—·011	29·781	30·157	29·247	78·1	74·0	85·1	—0·5	73·5	—0·1	79·3	—0·8	11·6	97·0	50·3

N.B.—Elevations in italics indicate barometrical determinations.

B.

stations in India, etc., in the year 1920.

Wind direction. Number of winds from									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.					Station.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of years.	Mean vapour-tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Mean cloud-amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
																								I.—Burma.
95	17	75	50	26	22	40	34	7	5·7	...	...	83	...	·821	...	6·7	...	163	+ 1·7	146·47	169·58	—21·11	5·65	Victoria Point.
125	4	13	62	76	23	11	1	2	3·5*	1·4	+2·5	89	+ 1	·829	—·002	4·3	— 0·2	153	— 1·4	146·73	162·94	—16·21	5·39	Mergui.(a)
279	11	14	4	19	27	8	0	4	1·7	1·1	+0·6	87	— 2	·804	—·002	6·2	+ 2·3?	143	— 2·6	230·10	214·81	+15·29	7·00	Tavoy.
62	3	85	114	48	28	17	5	4	2·7	2·3	+0·4	85	— 2	·783	—·013	5·4	+ 0·4	140	+ 0·1	211·36	188·91	+22·45	10·46	Moulmein. *
36	24	76	20	21	64	52	23	20	3·6	3·1	+0·7	87	0	·811	+·005	6·6	+ 1·4	113	— 9·3	93·91	99·10	— 5·19	4·25	Rangoon.
166	24	29	13	10	29	23	21	51	2·8	3·2	—0·4	84	— 5	·825	+·002	4·9	+ 0·4	113	—12·1	107·66	109·41	— 1·75	3·48	Bassein.
1	83	74	32	8	17	74	52	55	8·0	6·4	+1·6	79	— 1	·840	+·011	6·1	+ 1·0	112	— 1·1	134·88	117·81	+17·07	6·72	Diamond Island.
74	58	43	9	102	56	23	1	3	2·4	2·4	0	85	— 1	·779	—·006	5·3	0	113	— 1·5	71·26	83·28	—12·02	2·90	Toungoo.
296	6	9	24	11	5	1	5	3	0·9	...	...	85	...	·815	...	5·5	...	145	—15·0	163·38	175·42	—12·04	6·60	Kyaukpyu.(b)
78	50	105	25	37	27	17	4	13	2·8	2·4	+0·4	87	— 2	·779	—·028	5·3	+ 0·5	120	— 4·3	224·45	196·37	+28·08	10·89	Akyab.
33	9	5	10	159	18	14	8	111	3·1	6·3	—3·2	75	— 1	·702	—·002	4·2	+ 0·3	54	— 3·8	38·70	35·02	+ 3·48	4·50	Minbu.
...	...	...	...	...	...	...	...	...	...	...	...	76	— 3	·689	—·018	3·8	— 0·2	47	—15·9	24·92	36·05	—13·13	2·17	Yamethin.
128	0	0	0	10	11	0	0	1	3·0†	3·7	—0·7	87	+ 2	·664	—·041	4·6	+ 1·0	34	—17·2	28·80	33·45	— 4·65	4·17	Mandalay.(c)
67	110	11	10	92	34	1	1	40	2·2	...	...	73	— 6	·676	- ·038	5·1	+ 0·4	35	— 9·5	18·06	32·27	—14·21	1·92	Monywa.
277	5	6	6	4	20	33	12	3	2·2	...	...	83	— 3	·546	—·017	5·1	— 1·2	89	—21·6	44·22	62·29	—18·07	2·45	Lashio.
357	1	8	0	0	0	0	0	0	0·7	1·8	—1·1	93	+ 4	·701	+·024	8·3	+ 3·2?	92	— 8·4	60·93	72·72	—11·79	3·55	Bhamo.
309	15	32	7	0	1	1	1	0	2·3	...	...	88	+ 2	·642	—·032	5·9	0	103	— 3·7	83·81	78·91	+ 4·90	3·70	Myitkyina.
																								II.—Assam.
374	0	36	36	35	9	2	0	4	0·3	...	...	86	+ 2	·689	+·026	6·2	+ 0·3	135	— 0·9	96·96	109·06	—10·10	8·80	Dibrugarh.
197	42	67	15	11	22	13	1	6	1·1	1·8	—0·7	93	— 1	·853	—·022	8·3	+ 1·0	112	—17·4	82·98	98·54	—15·56	3·97	Sibsagar.
159	3	88	96	8	5	6	4	1	2·0	...	...	89	0	·681	+·002	5·1	0	100	— 9·3	66·09	71·98	— 5·89	2·46	Tezpur.
188	2	38	103	15	3	9	4	7	1·1	...	...	87	— 2	·707	+·014	6·2	— 0·4	100	+ 6·1	59·61	66·05	— 6·44	2·66	Gauhati.
35	3	118	133	27	23	19	3	1	4·8	3·8	+1·0	86	— 1	·701	0	4·8	+ 0·3	102	+ 7·9	140·61	95·41	+45·20	7·61	Dhubri.
188	3	26	30	12	1	2	0	4	1·7	1·7	0	85	— 3	·726	+·003	4·1	— 1·5?	139	+ 2·2	103·84	126·29	—22·45	2·92	Silchar.
...	...	...	...	...	...	...	...	...	...	...	...	83	+ 1	·703	—·026	2·8	...	129	+ 3·9	109·48	102·50	+ 6·98	5 20	Srinagal.
																								III.—Bengal.
190	1	26	33	78	27	4	1	1	2·5	...	...	86	....	·783	...	4·4	...	106	— 4·7	136·29	135·29	+ 1·00	5·60	Cox's Bazar.
73	12	80	81	86	24	5	4	1	2·5	3·6	—1·1	90	+ 3	·762	+·006	4·7	0	96	+ 1·4	87·99	101·54	—13·55	3·43	Chittagong.
72	62	42	12	169	44	19	7	2	2·9	...	...	87	0	·785	+·005	4·1	+ 0·6	108	— 5·2	127·55	120·84	+ 6·71	5·36	Noakhali.
86	22	33	18	55	56	48	22	26	2·7	2·3	+0·4	86	+ 1	·799	—·002	4·1	— 0·3	106	+ 3·7	89·25	81·59	+ 7·66	5·25	Barisal.
134	9	4	36	53	64	30	17	19	2·6	3·6	—1·0	82	— 4	·755	—·021	4·7	— 0·6	102	+ 9·6	96·11	72·44	+23·67	3·88	Narayanganj.
286	1	13	41	10	4	0	1	1	1·3	2·0	—0·8	85	— 2	·727	—·011	5·4	+ 0·4	106	— 0·1	77·93	93·83	—15·90	4·30	Mymensingh.
171	14	20	25	4	23	19	10	11	1·3	2·2	—0·9	87	+ 4	·745	+·029	5·4	+ 1·8	82	— 3·3	70·25	70·23	+ 0·12	4·14	Bogra.
60	15	60	121	25	15	23	35	13	2·7	2·6	+0·1	83	0	·663	+·001	3·7	— 0·7	71	— 3·4	71·62	69·68	+ 1·94	6·80	Dinajpur.
228	3	40	40	21	15	3	0	13	1·1	...	...	87	+ 1	·687	+·002	2·6	— 0·7	111	+ 8·3	126·41	121·11	+ 5·30	7·35	Jalpaiguri.(b)
14	70	54	12	6	67	97	33	21	3·0	5·91	+2·1	83	— 3	·808	—·023	5·0	— 0·4	70	— 9·2	58·92	69·58	—10·66	6·46	Sangor Island.

* Mean of 11 months.
† " 5 "
(a) Wind observations of 317 days.
(b) " 365 "
(c) " 150 "

TABLE

(2) *Abstract of observations taken at 8 hrs. at 213*

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.					Temperature of air.										
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° lat.	Highest pressure of year.	Lowest pressure of year.	Mean of 8 hrs. dry bulb of year.	Mean of 8 hrs. wet bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	III.—Bengal—*concld.*																	
	Midnapore	149	29·680	−·017	29·780	30·039	29·153	76·1	70·1	89·8	−0·2	70·8	+0·3	80·3	+0·1	19·0	112·4	47·2
	Calcutta	21	29·813	−·017	29·781	30·155	29·286	75·3	72·0	87·7	+0·9	71·6	+1·1	79·7	+1·0	16·1	105·4	50·4
	Jessore	10	29·812	−·011	29·789	30·145	29·318	76·3	71·5	87·1	−0·5	69·7	+0·1	78·4	−0·3	17·5	104·1	45·7
	Burdwan	99	29·723	+·028?	29·770	30·073	29·233	74·0	70·0	88·8	−0·1	69·8	+0·7	79·3	−0·4	19·0	109·4	49·0
	Berhampore	67	29·776	−·006	29·793	30·126	29·315	75·0	70·8	87·9	+0·2	69·9	+0·4	78·9	+0·3	18·0	108·6	47·5
	IV.—Bihar and Orissa.																	
8	Balasore	10	29·783	+·017	29·779	30·148	29·217	74·9	71·1	89·1	+0·5	70·2	+0·3	79·6	+0·1	18·9	108·2	47·0
	Hukitala (False Point)	29	29·821	+·006	29·791	30·155	29·256	...	...	...	...	...	...	...	...	...	...	...
	Cuttack	90	29·770	+·002	29·792	30·101	29·241	76·9	72·7	90·4	−0·8	72·4	−0·1	81·4	−0·5	18·0	109·7	53·2
	Puri	24	29·840	+·006	29·805	30·156	29·326	78·4	74·6	86·3	0	75·4	+0·9	80·8	+0·5	10·9	96·0	58·0
	Angul	455	29·385	−·006	29·791	29·711	28·845	75·9	70·3	90·5	+0·4	69·8	+0·5	80·2	+0·5	20·9	111·8	48·4
	Sambalpur	486	29·355	+·013	29·790	29·677	28·886	75·8	69·2	91·1	+0·3	68·3	+1·6	79·7	−0·7	22·9	112·2	43·7
	Chaibasa	733	29·064	−·014	29·781	29·438	28·596	73·1	67·4	90·3	+0·7	68·2	+0·5	79·2	+0·6	22·1	112·1	41·3
	Ranchi	2,133	27·699	−·003	29·786	27·906	27·280	71·8	63·1	84·6	+0·2	65·6	+0·1	75·1	+0·1	19·0	105·7	44·4
	Purulia	816	29·014	−·002	29·791	29·362	28·554	74·9	66·8	91·4	+2·0?	66·1	+0·7	80·2	+1·3?	22·2	113·7	47·6
	Daltonganj	730	29·102	−·04	29·891?	29·470	28·687	70·9	64·6	90·7	+1·3	64·6	−0·7	77·7	+0·3	26·1	113·4	37·6
6	Purnea	124	29·712	−·015	29·798	30·074	29·283	72·4	68·5	87·4	+0·5	66·1	−0·2	76·6	+0·1	21·3	107·1	39·3
	Monghyr	155	29·669	...	29·781	30·068	29·247	74·3	68·2	89·2	...	68·6	...	78·4	...	19·6	109·2	45·9
	Darbhanga	165	29·672	−·005	29·795	30·040	29·251	73·7	68·2	88·0	+2·0?	66·8	−1·3	77·4	+0·3?	21·2	109·4	41·2
	Pusa	188	29·637	...	29·784	30·005	29·215	73·0	68·1	89·3	...	66·3	...	77·8	...	23·6	112·9	43·0
	Patna	183	29·653	−·001	29·793	30·022	29·230	75·8	68·1	87·7	+0·1	68·0	+0·6	78·3	+0·3	19·7	108·0	44·5
	Buxar	239	29·581	−·010	29·780	29·974	29·178	73·1	66·4	87·9	−0·8?	67·9	−0·2	77·9	+0·5?	20·0	110·1	43·6
	Gaya	372	29·462	+·001	29·773	29·851	29·041	76·2	66·7	90·0	+0·1	69·7	+0·9	79·9	+0·5	20·3	112·0	46·1
	Naya Dumka	489	29·341	−·005	29·789	29·698	28·880	78·0	68·9	88·9	+1·3	68·2	+0·2	78·5	+0·7	20·7	110·8	45·2
	V.—United Provinces of Agra and Oudh.																	
9	Gorakhpur	257	29·571	+·002	29·791	29·948	29·181	73·5	68·5	88·4	+0·6	66·3	−0·7	77·3	−0·1	22·2	110·6	41·1
	Benares	267	29·559	−·004	29·785	29·944	29·166	75·3	66·5	90·4	+0·8	66·1	−0·6	78·2	+0·1	24·3	112·5	39·0
	Allahabad	309	29·539	+·017	29·809?	29·931	29·136	74·3	65·2	91·3	+1·1	67·0	+0·2	79·1	+0·7	24·3	115·5	38·5
	Cawnpore	416	29·417	+·010	29·798	29·787	29·014	72·7	64·5	90·7	+1·5	67·0	+0·8	78·8	+0·9	23·7	113·8	40·9
	Lucknow	368	29·451	+·005	29·785	29·851	29·075	73·2	64·8	91·5	+1·8	64·6	−1·0	78·1	+0·4	26·9	113·5	39·0
	Bahraich	407	29·405	−·009	29·780	29·781	29·047	71·4	64·7	88·8	+0·5	65·5	−0·3	77·2	+0·1	23·3	111·4	37·5
10	Jhansi	329	29·013	+·011	29·805	29·373	29·601	74·7	64·2	92·3	+1·1	66·7	−2·8	79·5	−0·9	25·5	115·0	39·8
	Agra	556	29·272	−·002	29·794	29·668	29·840	76·0	65·0	91·5	+1·1	67·5	−0·3	79·5	+0·4	24·0	115·3	37·3
	Mainpuri	516	29·299	−·007	29·785	29·677	29·877	72·5	62·9	91·3	+1·1	65·0	−0·5	78·1	+0·3	26·2	115·3	38·0
	Bareilly	568	29·230	−·005	29·781	29·623	29·789	71·7	65·0	86·7	+1·2	66·3	+0·6	77·0	+0·9	23·4	113·1	38·9
	Roorkee	899	28·910	0	29·800	29·309	28·456	69·1	62·0	86·4	−0·3	61·5	−0·8	73·9	−0·5	24·9	112·3	33·6

N. B.—Elevations in italics indicate barometrical determinations.

B—contd.

stations in India, etc., in the year 1920.

Wind direction. Number of winds from									Wind velocity.			Hygrometry, 8 hrs.			Cloud.		Rainfall.				Heaviest rainfall during	Station.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.		
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
																								III.—Bengal—*contd.*
95	60	31	11	36	78	19	6	23	2·5	...	...	73	— 3	·690	— ·021	4·4	+1·6	72	— 8·8	63·24	58·42	+ 6·82	4·20	Midnapore. (a)
38	24	30	25	26	41	09	21	62	3·4	3·7	+0·2	84	+ 1	·773	+·002	4·9	+0·5	70	−15·5	63·27	61·32	+ 1·95	3·92	Calcutta.
345	1	5	33	38	26	16	2	6	1·3	2·3	−0·9	82	− 3	·751	—·031	4·7	+0·1	77	−11·2	57·86	66·17	− 8·31	5·28	Jessore.
105	19	16	10	13	22	36	18	37	1·3	2·2	−1·0	80	+ 2	·713	—·003	4·8	+0·2	72	— 4·6	53·67	57·84	− 4·17	3·11	Burdwan.
134	20	19	34	33	64	32	10	10	2·3	2·4	−0·1	80	− 3	·729	—·005	4·6	− 0·1	72	— 4·3	58·72	56·10	+ 2·62	5·31	Berhampore.
																								IV.—Bihar and Orissa.
106	48	13	2	3	67	93	2	33	2·6	3·5	−0·9	82	+ 1	·742	—·008	4·5	+1·2	70	− 7·2	57·81	62·00	− 4·19	6·19	Balasore.
21	63	36	8	14	50	101	35	38	8·6	6·8	+1·8	...	...	...	...	6·5	+1·1	69	− 2·1	64·21	62·02	+ 1·29	3·06	Hukitala (False Point.)
187	0	6	9	1	7	85	65	8	1·9	3·0	−0·1	84	+ 5	·778	+·029	4·6	+0·3	66	− 3·1	52·69	50·30	− 6·61	4·14	Cuttack.
22	35	57	4	3	40	87	38	29	2·3	...	...	83	0	·824	+·001	4·0	+0·1	66	+ 3·1	53·76	54·00	− 0·24	5·20	Puri.
96	7	28	7	12	14	19	48	45	4·3	...	...	75	— 2	·694	+·001	4·4	+1·0	76	+ 5·1	50·90	47·04	+ 3·86	2·77	Angul.
0	69	85	11	11	16	104	12	58	2·8	2·6	+0·2	71	+ 1	·648	—·003	3·8	0·1	65	− 8·9	74·30	64·72	+ 9·58	6·73	Sambalpur.
211	6	14	8	0	12	108	5	3	1·8	1·3	+0·5	74	− 3	·626	—·015	3·9	+0·5	75	+ 0·3	64·85	52·11	+12·74	7·30	Chaibasa.
57	24	13	10	17	17	47	101	60	3·6	4·6	−1·0	61	+ 5	·495	—·037	3·8	0	77	− 2·7	63·49	56·20	+ 6·29	4·82	Ranchi.
184	6	9	5	19	3	40	76	28	4·1	...	...	64	+ 9	·586	—·044	3·6	+0·4	66	− 8·2	49·31	52·51	− 3·20	6·75	Purulia.
249	5	10	20	18	5	31	22	5	3·0	...	...	70	+ 2	·550	—·038	2·6	−0·1	53	− 8·1	72·51	41·91	+30·60	11·45	Daltonganj. (b)
40	15	54	175	28	3	43	38	10	2·5	2·3	+0·2	82	+ 3	·637	+·002	4·2	+0·8	69	− 1·3	44·77	61·72	−16·95	9·12	Purnea.
108	0	13	60	72	1	82	28	2	3·3	...	...	73	...	·655	...	3·1	...	53	−10·4	42·05	50·99	− 8·94	4·40	Monghyr.
267	0	3	77	3	0	3	15	9	2·6	2·9	−0·3	75	+ 6	·655	—·029	3·8	+0·7	60	+ 0·9	43·06	51·09	− 8·07	7·57	Darbhanga.
90	10	32	104	33	13	40	31	13	2·6	...	...	78	...	·659	..	3·0	...	48	−10·1	44·63	49·13	− 4·50	7·31	Pusa.
121	3	3	118	5	3	37	70	6	3·5	2·7	+0·8	66	+ 6	·623	—·033	3·5	0	48	− 8·1	32·26	47·98	−15·72	4·04	Patna.
66	5	19	62	33	17	76	74	14	3·1	...	...	70	+ 22	·508	—·010	3·4	+0·1	53	− 0·3	34·03	41·09	− 7·06	3·65	Buxar.
71	16	33	25	18	22	146	53	19	2·4	2·7	−0·3	61	+10	·562	—·074	2·9	−0·5	54	− 3·1	54·55	46·48	+ 8·07	5·12	Gaya.
332	3	2	8	13	3	3	1	1	1·4	...	...	69	+ 4	·646	—·003	3·3	0	34	+ 7·7	62·00	56·21	+ 5·88	5·24	Naya Damka.
																								V.—United Provinces of Agra and Oudh.
155	1	24	102	6	1	21	75	1	1·9	1·7	+0·2	73	− 2	·613	—·031	1·6	−1·4	46	− 9·1	45·18	50 58	− 5·40	5·90	Gorakhpur.
107	6	13	16	47	3	76	64	32	2·2	2·7	−0·5	64	− 8	·571	—·051	2·9	−0·4	48	− 4·1	38·75	40·18	− 1·43	3·55	Benares.
125	2	17	38	7	3	30	131	13	2·7	3·8	−1·1	59	− 7	·532	—·050	3·3	−0·2	40	− 9·1	34·42	38·80	− 4·38	3·24	Allahabad.
60	26	22	32	26	28	49	78	45	2·2	2·7	−0·5	65	+ 6	·544	—·025	1·7	−0·8	33	−13·3	22·47	35·90	−13·43	5·10	Cawnpore.
235	1	30	5	12	1	32	6	39	1·3	2·2	−0·9	64	− 5	·552	—·027	2·4	−0·8	43	− 4·9	31·43	38·53	− 7·10	4·20	Lucknow.
159	22	8	89	19	3	5	32	29	2·0	2·3	−0·3	70	− 5	·567	—·008	1·8	−0·6	46	− 4·7	46·35	45·33	+ 1·03	5·85	Bahraich.
95	12	11	4	4	15	136	52	29	3·4	2·4	+1·0	56	− 2	·495	—·042	2·1	0	33	−13·3	20·18	35·95	−15·77	1·96	Jhansi. (c)
133	9	23	28	13	20	78	43	20	2·4	3·3	−0·9	51	− 9	·492	—·033	2·5	−0·2	39	+ 1·6	22·56	26·69	− 4·13	2·75	Agra.
105	30	15	27	29	15	23	54	71	1·6	1·4	+0·2	53	− 7	·491	—·054	3·0	−0·2	40	+ 1·7	22·42	27·30	− 4·88	3·40	Mainpuri.
229	7	8	21	14	3	10	48	26	1·1	2·0	−0·9	69	− 3	·569	—·006	2·4	+0·5	39	− 2·0	27·22	44·41	−17·19	4·05	Bareilly.
258	0	2	0	56	0	0	0	10	2·0	1·8	+0·2	66	− 5	·487	—·028	2·0	−0·8	38	− 9·4	39·77	42·33	− 2·56	5·86	Roorkee.

(a) Wind observations of 359 days.
(b) Wind observations of 365 days.
(c) Wind observations of 358 days.

TABLE

(2) Abstract of observations taken at 8 hrs. at 213

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches.					Temperature of air.									
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of year.	Lowest pressure of year.	Mean of 8 hrs. dry bulb of year.	Mean of 8 hrs. wet bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	VI.—Punjab.																	
11	Delhi	718	29·101	+·001	29·799	29·468	28·669	71·0	61·4	87·9	−0·8	57·1	−0·4	77·5	−0·6	20·8	112·8	38·0
	Hissar	725	29·100	+·013	29·807	29·490	28·670	71·1	60·8	91·8	+0·4	52·8	−1·3	77·3	−0·5	29·0	115·7	29·3
	Patiala	818	28·964	−·031?	29·766	29·367	28·528	70·8	62·9	87·9	+0·8	53·8	+0·3	70·9	+0·5	34·1	112·2	34·0
	Ambala	892	28·907	−·007	29·787	29·310	28·454	70·3	60·8	80·4	+1·8	61·1	+0·7	70·4	+1·3	26·0	114·6	33·4
	Ludhiana	812	28·987	−·006	29·789	29·389	28·524	69·1	60·2	88·8	+0·9	53·6	−0·3	76·2	+0·3	35·1	112·9	35·6
	Lahore	702	29·090	−·011	29·783	29·503	28·645	69·0	60·8	89·0	−1·2	53·7	+1·1?	75·9	−0·1?	26·2	112·8	34·2
	Sialkot	830	28·963	−·013	29·787	29·371	28·480	68·4	61·4	85·3	−3·2	50·4	−2·4	72·9	−2·2	24·9	107·5	33·5
	Rawalpindi	1,674	28·138	−·010	29·808	28·494	27·667	67·8	56·4	84·1	0	57·9	+0·2	71·0	+0·1	26·2	114·0	27·0
12	Khushab	612	29·203	+·001	29·801	29·623	28·637	71·7	60·2	90·2	+0·5	51·4	−2·5	75·8	−1·0	28·8	114·2	31·2
	Lyallpur	605	29·187	...	29·778	29·598	28·634	69·3	60·1	89·4	...	51·4	...	75·4	...	28·0	113·5	31·0
	Montgomery	558	29·238	+·011	29·779	29·653	28·746	74·4	60·9	89·9	−1·7	52·8	−1·4	76·3	−1·5	27·0	113·1	34·0
	Multan	426	29·370	−·015	29·771	29·810	28·855	71·6	62·9	91·4	−0·5	56·5	+0·9	79·0	+0·2	24·9	113·8	35·5
	VII.—North-West Frontier Province.																	
14	Peshawar	1,113	28·765	−·023	29·830	29·119	28·169	64·3	57·4	86·8	+1·5	59·5	−0·8	73·7	+0·3	23·3	121·6	30·1
	Dera Ismail Khan	590	29·233	+·006	29·810	29·718	29·083	70·3	62·2	89·5	−0·5	53·3	+0·9	76·5	+0·2	26·2	112·0	32·1
	VIII.—Sind.																	
16	Jacobabad	186	29·629	−·001	29·779	30·109	29·125	76·0	62·2	94·8	−0·8	56·2	+0·7	80·5	−0·1	25·7	115·9	32·6
	Hyderabad	96	29·780	+·011	29·781	30·158	29·255	74·3	65·7	93·7	+0·3	58·5	+0·3	81·0	+0·3	25·2	118·4	37·2
	Karachi	13	29·953	0	29·816	30·236	29·390	75·7	69·8	84·8	+0·7	71·3	+0·6	78·3	+0·7	13·0	107·6	43·2
	IX.—Rajputana.																	
17	Bikaner	771	29·062	+·013	29·810	29·450	28·634	73·4	63·0	92·9	+0·9	55·9	−3·4?	79·4	−1·3?	26·9	116·0	32·7
	Jodhpur	780	29·069	+·004	29·821	29·441	28·670	73·8	60·7	92·4	−0·2	56·6	−1·2	79·5	−0·7	25·8	111·7	30·8
18	Jaipur	1,431	28·423	+·004	29·827	28·748	28·088	72·7	60·9	90·4	−0·5	53·7	−2·0	77·1	−1·3	26·7	121·7	33·2
	Ajmer	1,611	28·238	−·010	29·834	28·562	27·866	67·0	58·5	87·7	−1·1	53·8	−1·2	75·8	−1·1	23·9	109·6	33·2
	Kotah	882	29·007	−·005	29·803	29·319	28·616	77·1	63·7	91·9	−0·4	59·1	−1·0	80·6	−0·7	22·8	114·8	39·6
	X.—Bombay.																	
19	Deesa	466	29·405	+·008	29·832	29·737	28·997	74·9	64·9	95·1	+1·0	56·4	−0·6	80·8	+0·2	28·7	114·8	35·9
	Bhuj	364	29·530	−·005	29 819	29·879	29·043	76·7	71·3	91·9	+0·7	67·2	−1·4	79·5	−0·3	24·7	109·8	39·9
	Jamnagar	61	29·797*	−·014*	29·916†	30·157	29·207	74·0‡	67·0‡	89·6‡	+0·9‡	63·2‡	−0·5‡	76·3‡	+0·2‡	26·4‡	104·7	40·8
	Dwarka	37	29·949	−·011	29·832	30·173	29·290	77·4	72·7	85·3	+1·2	75·5§	+1·4§	80·4§	+1·3§	9·7§	97·8	48·9
	Rajkot	429	29·433	−·02·?	29·817	29·734	29·066	75·5	66·7	93·8	+0·8	56·6	+2·6?	81·2	+1·3?	25·1	110·2	42·9
	Veraval	18	29·868	−·007	29·829	30·138	29·003	76·3	76·2	84·8	−0·1	72·4	+1·4	78·6	+0·7	12·4	101·3	48·6
	Bhavnagar Para	55	29·830	−·007	29·832	30·120	29·030	76·4	66·4	93·8	+0·2	58·7	−0·6	81 3	−0·2	25·1	109·8	39·6
	Surat	39	29·959	+·001	29·843	30·120	29·267	77·1	69·9	91·4	−0·2	71·2	+1·4	81·3	+0·7	20·2	108·9	47·9
	Ahmadabad	163	29·727	+·005	29·840	30·018	29·223	77·6	67·8	95·8	+1·4	70·4	−0·3	83·1	+0·5	25·4	110·9	36·0
25	Bombay	37	29·884	−·009	29·841	30·085	29·485	78·4	73·4	87·3	+1·3	76·0	+1·1	81·7	+1·2	11·2	94·4	62·3
	Ratnagiri	207	29·690	−·011	29·838	29·869	29·353	80·4	72·2	88·1	+0·9	74·5	+1·4	81·3	+1·1	13·6	101·3	63·1

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 7 months.
† " " 5 "
‡ " " 8 "
§ " " 10 "

B—contd.

stations in India, etc., in the year 1920.

Wind direction. Number of winds from									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.				Heaviest rainfall during year.	Station.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity in miles per hour of years.	Normal velocity of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.		
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
																								VI.—Punjab.
104	7	17	10	43	11	9	105	60	2·4	2·5	—0·1	57	— 2	·459	—·096	2·1	—1·1	24	—12·7	23·20	27·38	— 4·18	4·00	Delhi.
26	31	8	25	55	42	89	67	16	4·8	3·5	+1·3	55	— 5	·443	—·060	1·8	—0·8	15	— 8·8	6·58	14·02	— 7·49	3·00	Hissar.
59	26	25	20	90	5	12	70	48	4·3			65	— 2	·520	—·023	2·4	—0·3	30	— 6·8	23·78	25·59	— 1·81	3·67	Patiala.†
89	61	7	60	64	5	3	37	44	3·8	1·5	+2·3	58	—142	·448	—·089?	3·2	+0·4	33	— 9·7	16·96	30·63	—13·67	1·62	Ambala.
281	13	20	1	19	15	3	9	16	1·4	1·4	0	60	— 5	·445	—·062	1·9	—1·1	25	—11·3	16·60	28·58	—11·98	3·44	Ludhiana.
109	18	28	21	68	14	20	25	34	1·6	1·8	—0·2	65	— 2	·479	—·033	2·4	—0·2	14	—14·1	10·64	19·58	— 8·94	4·69	Lahore.
98	49	54	68	37	8	11	12	28	1·8	1·5	+0·3	68	+ 2	·496	—·011	2·3	0	32	— 8·4	19·81	30·69	—10·88	2·61	Sialkot.
159	17	30	19	33	12	27	54	15	2·3	1·6	+0·7	58	— 7	·415	—·051	1·6	—1·6	36	—12·1	20·60	34·06	—13·46	1·75	Rawalpindi.
156	26	65	51	16	16	19	10	9	3·8	3·6	+0·2	51	— 4	·421	—·034	2·1	0	20	— 3·6	7·92	14·85	— 6·93	1·80	Khushab.
105	7	31	34	44	25	67	21	32	2·1	...	...	60	...	·443	...	2·8	...	16	— 4·1	5·27	13·13	— 4·86	1·53	Lyallpur.
68	36	28	27	34	52	56	22	40	3·8	4·3	—0·5	54	+ 2	·441	—·010	1·8	—0·3	12	— 6·5	3·72	10 47	— 6·75	0·71	Montgomery.
188	31	23	3	17	31	61	1	36	1·4	1·5	—0·1	61	+ 2	·509	0	1·3	—0·3	8	— 4·5	5·25	6·92	— 1·67	1·38	Multan.*
																								VII.—North-West Frontier Province.
315	24	4	3	6	13	3	1	4	0·6	2·4	—1·8	67	+ 4	·431	—·022	1·7	—1·3	19	— 7·0	9·83	13·42	— 3·59	1·62	Peshawar.*
223	0	73	0	21	0	0	0	49	1·5	1·3	+0·2	61	— 4	·501	—·021	2·2	+0·2	11	— 5·3	8·82	9·32	— 0·50	1·79	Dera Ismail Khan.
																								VIII.—Sind.
193	1	18	4	113	4	9	0	24	1·7	2·5	—0·8	46	—12	·443	—·090	0·5	—1·3	4	— 3·4	2·26	3·59	— 1·33	1·00	Jacobabad.
107	47	5	3	7	30	138	18	11	5·5	8·1	—2·6	62	+ 4	·554	+ ·019	0·8	—1·5	6	— 3·3	1·70	7·13	— 5·43	0·44	Hyderabad.
12	48	64	18	3	2	68	120	36	9·2	9·2	0	72	— 1	·689	+ ·012	3·7	+0·2	5	— 4·3	1·97	7·64	— 5·67	0·77	Karachi.
																								IX.—Rajputana.
48	4	8	36	61	68	89	37	15	5·2	4·3	+0·9	54	+ 1	·469	—·011	1·5	—0·9	13	— 5·8	13·26	11·09	+ 2·17	5·38	Bikaner.
109	5	47	9	4	19	120	20	3	3·1	...	...	44	— 5	·394	—·057	3·1	0	20	+1·9	10·77	12·63	— 1·86	2·20	Jodhpur.
120	24	33	23	6	2	50	60	49	3·0	3·2	—0·2	50	— 5	·419	—·061	2·8	—0·3	30	— 4·8	31·31	23·63	+ 7·68	5·08	Jaipur.
226	8	5	1	1	1	65	63	1	2·8	3·6	—0·8	60	— 3	·421	—·085	1·5	—1·3	32	+2·9	21·98	20·21	+ 1·77	2·55	Ajmer.
164	18	8	2	13	1	67	51	42	1·8			47	— 3	·441	—·030	2·4	+0·2	27	— 7·2	22·23	26·51	— 4·28	3·21	Kotah.
																								X.—Bombay.
37	15	71	59	8	32	82	37	25	6·3	7·5	—1·2	56	0	·519	—·004	3·2	0	32	+4·1	19 78	23·57	—3·79	2·70	Deesa.
13	29	6	4	2	5	55	145	7	5·9	8·1	—2·2	76	+ 2	·726	+·095?	2·9	—0·1	11	—5·3	10·60	14·36	—3·76	2·88	Bhuj.
12	4	53	49	2	20	74	76	28	6·04	...	...	68	+ 1	·594	—·048	2·3	+0·2	20	—0·8	35·32	18·53	+16·79	13·30	Jamnagar.‡
7	68	46	16	2	21	78	67	41	10·5	...	...	78	+ 1	·758	+·007	2·3	—1·0	12	—4·7	10·63	14·50	—3·87	3·90	Dwarka.
4	26	39	24	9	21	121	55	26	7·2	6·6	+0·6	61	— 5	·555	—·044	4·3	+1·4	22	—5·8	22·66	26·06	—3·40	5·77	Rajkot.
5	94	34	4	8	7	41	97	45	8·0	9·1	+1·9	73	+ 2	·685	+·016	3·2	—0·3	30	+5·3	20·91	18·28	+2·63	4·64	Veraval.*
	18	18	3	10	13	81	120	97	4·0	7·3	—3·3	58	— 5	·557	—·046	3·3	+0·1	33	+2·1	26·86	22·40	+4·46	4·52	Bhavnagar Para.
	30	41	34	38	45	48	23	13	3·5	5·5	—2·0	68	— 2	·674	—·008	3·9	+0·6	51	+4·8	31·08	40·98	—9·90	3·69	Surat.
8	62	40	16	7	77	12	80		3·2	3·6	—0·4	59	+ 1	·581	+·010	2·4	—1·1	32	+2·1	24·38	29·15	—4·77	3·90	Ahmadabad.
30	70	70	27	18	44	65	37		6·7	8·6	—1·9	78	0	·763	—·005	4·1	—0·2	60	—11·9	41·05	71·15	—30·10	7·18	Bombay.
38	45	45	56	13	47	37	43		7·5	6·2	+1·3	66	— 7	·696	—·036	6·7	—0·2	87	—5·1	57·63	100·33	—42·69	4·09	Ratnagiri.

a Mean of 10 months.
§ ,, ,, 8 ,,

* Wind observations of 365 days.
† ,, ,, ,, 364 ,,
‡ ,, ,, ,, 316 ,,

TABLE.

(2) *Abstract of observations taken at 8 hrs. at 213*

Number of sub-division.	Station.	Height of bar-ometer above sea-level in feet.	Pressure, 8 hrs., in inches.					Temperature of air.										
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of year.	Lowest pressure of year.	Mean of 8 hrs. dry bulb of year.	Mean of 8 hrs. wet bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	X.—Bombay—*concld.*																	
	Marmagao	60	29·855	+·001	29·849	30·027	29·571	77·9	74·9	85·7	−0·2	75·1	+0·2	80·4	0	10·7	93·2	68·2
	Karwar	44	29·874	−·005	29·853	30·043	29·612	75·9	73·1	87·4	+1·3	73·4	+0·7	80·4	+1·0	14·0	98·7	61·0
26	Malegaon	1,430	28·453	−·004	29·835	28·677	28·075	75·6	64·1	93·8	+1·9	65·3	+0·2	79·6	+1·1	28·5	103·5	40·2
	Ahmadnagar	2,164	27·756	−·005	29·830	27·956	27·474	74·5	62·9	91·7	+2·3	64·5	+0·7	78·1	+1·5	27·2	110·0	45·2
	Poona	1,846	28·075	+·012	29·870	28·271	27·753	71·2	64·0	89·8	+0·3	63·6	−1·0*	76·2	−0·32	26·1	104·0	44·9
	Sholapur	1,590	28·302	−·007	29·828	28·520	28·043	76·7	64·4	94·0	+1·1	69·1	+1·0	81·6	+1·1	24·9	108·1	52·9
	Bijapur	*1,946*	27·959	+·001	29·834	28·159	27·709	75·6	66·6	91·2	+0·5	68·3	+0·7	79·7	+0·6	22·9	105·9	50·3
	Belgaum	2,562	27·383	+·006	29·862	27·553	27·117	70·6	64·6	85·2	+0·7	64·2	+0·3	74·7	+0·5	21·1	99·1	52·0
	XI.—Central India.																	
20	Neemuch	1,626	28·235	−·011	29·815	28·531	27·877	74·4	64·2	88·8	−0·1	64·0	−0·5	76·3	−0·3	24·8	108·7	36·9
	Indore	1,823	28·055	0	29·823	28·318	27·711	75·1	65·1	89·2	+1·1	63·9	+0·2	76·5	+0·7	25·3	108·9	37·1
21	Nowgong	754	29·077	−·006	29·804	29·451	28·684	71·1	62·1	89·2	+0·3	64·3	−1·4	77·0	−0·5	25·5	114·1	37·4
	Sutna	1,041	28·788	+·002	29·796	29·132	28·382	73·9	64·1	88·5	+0·3	63·7	−0·2	77·1	+0·1	22·7	110·8	37·8
	XII.—Central Provinces.																	
22	Buldana	2,134	...	...	...	...	...	26·0	63·7	89·3	+1·7	63·7	+0·8	79·0	+1·3	20·7	104·4	49·0
	Akola	925	28·966	+·007	29·835	29·229	28·618	76·8	63·9	95·8	+2·6	66·2	+1·0	83·0	+1·9	27·8	111·3	46·3
	Amraoti	1,315	28·654	+·001	29·818	28·922	28·311	77·8	63·9	93·7	+1·6	70·4	+1·4	82·0	+1·5	23·4	111·1	51·9
23	Khandwa	1,044	28·822	+·001	29·832	29·096	28·483	75·3	64·8	93·0	+1·0	66·2	+0·8	79·6	+0·1	26·8	111·5	40·3
	Hoshangabad	1,006	28·864	+·005	29·837	29·160	28·491	72·7	64·5	90·7	+0·3	65·3	+1·6	78·0	−0·7	25·6	111·3	43·4
	Saugor	1,807	28·014	−·038?	29·774?	29·207	27·640	72·5	60·3	89·1	+1·2	60·5	0	77·8	+0·6	29·0	109·9	40·6
	Jubbulpore	1,327	28·501	−·015	29·793	28·790	28·108	72·0	63·3	88·7	+0·2	64·8	+0·4	76·7	+0·3	23·9	108·9	38·9
	Seoni	2,033	27·839	+·008	29·814	28·107	27·439	73·5	61·8	87·4	−0·5	64·8	+0·1	76·1	+0·2	22·6	106·4	42·7
	Nagpur	1,017	28·856	+·017	29·827	29·144	28·477	77·1	65·0	93·0	+0·9	68·3	+0·5	80·6	+0·3	24·7	112·4	45·9
24	Pendra	2,040	27·823	+·013	29·805?	29·107	27·410	73·1	62·1	85·8	+0·3	63·7*	−1·3*	74·3*	−0·5	22·2*	102·9	42·9
	Raipur	970	28·870	−·008	29·795	29·173	28·386	76·1	66·4	91·0	+0·7	69·2	+0·1	80·1	+0·4	21·8	112·0	48·6
	Chanda	634	29·232	−·007	29·817	29·518	28·880	77·6	67·7	94·3	+1·4	69·5	−0·1	81·4	+0·7	25·7	113·1	43·4
	Jagdalpur	1,813	28·071	...	29·828	28·328	27·697	73·2	66·9	88·6		65·2		76·9		23·4	107·2	41·6
	XIII.—Hyderabad.																	
27	Aurangabad	1,905	28·001	−·006	29·838	28·222	27·705	75·6	62·1	92·2	+1·4	67·6	+2·0?	79·9	+1·7?	24·6	107·0	46·2
	Nizamabad	1,246	28·633	+·008	29·824	28·960	28·320	78·1	66·7	95·3	+3·7	68·5	+0·1	81·9	+1·9	26·8	114·6	46·3
28	Gulbarga	1,503	28·391	−·004	29·833	28·607	28·127	76·3	66·8	95·2	+2·6	69·2	+0·2	82·2	+1·4	26·0	111·0	50·8
	Raichur	*1,311*	28·589	+·014	29·837	28·797	28·336	76·9	69·0	94·5	+2·2	72·3	+0·6	83·4	+1·4	22·2	110·0	56·1
	Hyderabad (Deccan)	1,719	28·196	+·015	29·836	28·558	27·894	76·3	68·4	91·4	+0·9	70·1	+0·6	80·8	+0·7	21·3	108·4	51·0
	Hanamkonda	877	29·003	+·006	29·828	29·232	28·679	79·7	70·0	94·0	+2·2	73·9	+2·1	83·5	+1·7	21·1	112·5	51·5

N. B.—Elevations in italics indicate barometrical determinations.

* Mean of 11 months.

B—contd.

stations in India, etc., in the year 1920.

Wind direction. Number of winds from									Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.					Heaviest rainfall during	Station.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.		
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
																								X.—Bombay—*concld.*
34	22	37	80	11	11	11	79	29	7·1	6·7	+0·4	84	+ 1	·823	+·010	5·5	+1·2	103	+ 8·6	79·83	93·84	—14·01	6·24	Marmagao.†
281	89	9	0	0	10	24	0	3	2·2	3·0	−0·8	87	+ 4	·785	+·028	4·7	+0·9	103	— 0·2	83·65	120·63	—36·98	4·27	Karwar.
80	5	1	2	8	11	159	76	24	5·5	6·5	—1·0	63	— 5	·485	—·031	3·3	+0·2	20	—15·0	11·54	22·58	—11·04	1·75	Malegaon.
110	25	12	6	14	13	33	58	95	5·3	8·3	—3·0	52	—10	·441	—·084	1·9	—1·1	30	— 5·3	12·65	22·33	— 9·68	1·58	Ahmadnagar.
117	3	3	8	4	3	23	117	57	6·7§	7·6	—0·9	·65	+ 2	·519	+·016	5·4	+1·7†	44	— 2·8	25·08	27·25	— 2·17	2·29	Poona. ‡
25	18	37	21	46	7	35	36	126	8·0	7·1	+0·9	49	— 6	·4·0	—·046	3·7	—0·2	17	—24·3	14·66	28·52	—13·86	3·55	Sholapur.
77	45	21	13	18	25	30	83	51	3·3§	4·7	—1·4	62	— 5	·551	—·028	2·5	—1·2	35	— 1·2	13·69	20·50	— 6·81	2·18	Bijapur.
196	14	17	20	5	6	40	60	8	3·8	11·0	—7·2	73	+ 3	·593	—·004	5·2	+0·8	75	— 6·3	44·90	50·86	— 5·96	1·94	Belgaum.
																								XI.—Central India.
123	2	6	30	4	2	5	143	1	4·3	6·4	—2·1	58	0	·506	+·007	2·5	—0·3	37	+ 1·7	31·06	28·03	+ 3·03	4·10	Neemuch.
107	18	34	15	14	9	8	102	63	3·7	3·0	+0·7	58	— 4	·510	—·012	3·1	—0·5	45	+ 0·2	39·17	32·34	+ 6·83	4·90	Indore.*
100	12	14	12	20	20	68	81	44	1·8	1·9	—0·1	62	— 3	·477	—·062	3·5	—0·2	40	— 8·1	26·46	42·86	—16·40	2·36	Nowgong.
170	9	4	16	10	25	66	51	15	2·3	4·4	—2·1	60	— 1	·512	—·004	2·5	—1·2	39	—15·7	33·31	44·34	—11·03	3·62	Sutna.
																								XII.—Central Provinces.
6	1	11	55	45	5	35	117	91	5·5	5·7	—0·2	51	...	·450	...	3·8	...	25	—26·5	24·38	34·62	—10·24	4·46	Baldana.
57	14	27	40	16	13	26	104	69	5·1	4·4	+0·7	47	—10	·446	—·064	3·4	—0·2	21	—24·5	12·21	31·99	—19·78	1·79	Akola.
7	3	20	59	14	4	48	74	67	5·3	4·2	+1·1	46	—12	·432	—·097	3·7	+0·2	29	—18·5	15·42	33·47	—18·05	1·55	Amraoti.
38	17	36	33	11	18	45	129	41	5·0	4·4	+0·6	57	0	·498	+·004	3·9	+0·8	31	— 9·3	26·82	29·54	— 2·72	4·74	Khandwa.
153	0	83	0	5	0	102	4	20	2·0	2·3	—0·3	63	— 1	·538	—·003	3·1	—0·3	39	—15·9	34·31	48·27	—13·96	5·80	Hoshangabad.
71	8	22	28	37	15	34	116	46	4·5	3·2	+1·3	49	— 7	·397	—·070	2·8	—0·3	41	—14·1	36·18	44·76	— 8·58	4·23	Saugor.
53	9	13	19	96	44	53	61	19	2·0	2·3	—0·3	58	— 9	·468	—·056	2·5	—0·8	44	—19·4	30·49	55·01	—24·52	2·63	Jubbulpore. (6)
124	59	36	3	2	20	23	61	35	3·6	2·7	+0·9	51	—11	·429	—·078	3·0	—0·2	49	—21·1	37·77	52·46	—14·69	4·59	Seoni.
49	59	53	30	9	4	66	84	66	4·1	4·1	0	51	— 8	·479	—·056	2·8	—1·0	40	—22·5	29·23	49·16	—19·93	4·84	Nagpur.
251	19	2	1	6	17	15	14	41	3·5	...	...	53	— 7	·438	—·042	3·4	0	58	—14·1	35·22	49·19	—13·97	3·23	Pendra.
233	9	11	21	4	13	34	33	9	3·2	4·3	—1·1	59	— 4	·545	—·015	4·0	+0·2	52	—11·3	36·42	50·02	—13·60	7·97	Raipur.
27	19	30	37	36	26	75	73	53	3·6	2·7	+0·9	59	— 5	·571	—·015	3·6	0	41	—21·7	29·80	52·63	—22·83	2·58	Chanda.
187	11	5	4	5	56	46	41	11	2·4	...	...	73	...	·602	...	0·8	...	63	—15·4	37·52	61·33	—23·81	2·12	Jagdalpur.
																								XIII.—Hyderabad.
52	27	20	66	28	6	39	101	37	3·2	...	...	47	— 7	·409	—·077	3·7	+0·4	18	—25·6	10·49	27·78	—17·29	2·03	Aurangabad.
96	38	31	14	13	22	57	33	32	2·9	...	...	55	—11	·539	—·087	3·5	0	42	—13·0	24·65	40·83	—16·18	4·09	Nizamabad.
15	32	65	57	15	15	41	83	43	7·4	7·4	0	60	— 4	·555	—·025	2·3	—1·3	24	—23·9	14·09	31·37	—17·28	1·98	Gulbarga.
17	17	25	40	41	27	35	100	64	7·8	7·1	+0·7	60	— 3	·597	0	3·2	—0·3	30	—14·3	14·77	27·64	—12·87	2·80	Raichur.
155	2	4	19	27	7	16	93	43	3·8	4·0	—0·2	66	— 2	·605	+·017	3·8	—0·1	31	—18·0	21·35	31·62	—10·27	2·88	Hyderabad (Deccan).
331	10	5	6	78	84	15	42	55	4·1	..	...	61	— 5	·615	—·014	4·2	+0·1	31	—19·0	15·13	34·53	—19·40	1·63	Hanamkonda.

* Wind observations of 360 days.
† " " 314 "
‡ " " 335 "
§ Mean of 11 months.
‖ Wind observations of 365 days.

TABLE

(2) *Abstract of observations taken at 8 hrs. at 213*

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches.					Temperature of air.									
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of year.	Lowest pressure of year.	Mean of 8 hrs. dry bulb of year.	Mean of 8 hrs. wet bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	XIV.—Mysore.																	
29	Chitaldrug	2,406	27·623	−·001	29·831	27·691	27·308	73·9	65·9	88·1	+1·1	63·2	+0·8	73·1	+0·9	19·9	100·9	56·8
	Hassan	3,149	26·836	+·009	29·854	27·01	26·628	70·3	66·0	83·7	+0·4	63·3	+0·9	73·5	+0·7	20·4	97·4	48·3
	Bangalore	3,021	26·955	+·002	29·854	27·113	26·765	70·5	65·7	85·6	+1·1	64·6	+0·4	75·1	+0·7	21·0	98·8	50·1
	Mysore	2,518	27·482	−·007	29·851	27·580	27·257	72·8	67·1	86·2	+0·2	63·0	+0·2	76·1	0	30·3	99·0	53·2
	XV.—Madras.																	
30	Mangalore	72	29·860	−·010	29·863	30·008	29·554	79·7	74·6	87·9	+0·5	74·5	+1·0	81·2	+0·7	13·4	100·1	66·7
	Calicut	27	29·905	−·003	29·861	30·053	29·753	78·2	75·3	85·3	−1·4	74·9	+0·6	80·1	−0·4	10·4	98·7	66·5
	Cochin	9	29·932	0	29·860	30·088	29·815	76·7	74·9	87·4	+0·4	75·2	+0·3	81·4	−0·1	12·3	98·8	64·4
	Trivandrum	198	29·741	+·000	29·870	29·909	29·614	77·5	74·5	84·1	0	74·6	−0·6	79·4	−0·3	9·5	91·2	68·0
31	Pamban	37	29·869	−·011	29·847	30·032	29·706	81·3	76·4	88·9	+1·1	73·2	+0·8	83·5	+0·9	10·8	94·2	72·5
	Madura	447	29·475	+·022	29·855	29·583	29·283	80·7	74·1	93·5	−1·3	25·1	+1·2	82·7	−0·1	17·4	104·4	61·8
	Pudukkottai	318	29·609	+·005	29·855	29·781	29·426	80·2	73·5	93·0	−0·4	74·7	+0·7	83·9	+0·1	18·3	107·2	63·9
	Negapatam	31	29·879	−·001	29·839	30·066	29·692	80·7	75·2	89·9	−0·2	76·6	+0·4	83·2	+0·1	13·3	103·4	66·7
	Trichinopoly	255	29·660	−·003	29·848	29·960	29·467	81·3	74·4	94·1	−0·2	74·6	+0·4	84·4	+0·1	19·5	107·9	61·7
	Coimbatore	1,341	28·590	+·000	29·867	28·768	28·404	76·2	71·2	89·5	−0·5	70·3	+0·6	79·9	+0·1	19·2	100·2	55·9
	Salem	913	29·009	+·003	29·862	29·186	28·808	76·2	71·7	92·6	−0·5	71·6	+0·9	82·1	+0·1	20·2	105·3	56·1
	Cuddalore	37	29·871	−·001	29·837	30·100	29·655	80·4	75·1	89·9	−0·7	75·5	+1·0	82·7	+0·1	14·4	105·7	63·5
	Vellore	707	29·196	−·007	29·844	29·402	28·971	77·9	72·3	92·5	+1·1	72·9	+0·4	82·7	+0·7	19·6	109·4	56·0
	Madras	22	29·878	−·007	29·831	30·102	29·642	81·1	75·5	92·0	+1·0	76·0	+1·2	84·0	+1·1	16·0	108·7	62·6
32	Cuddapah	428	29·474	−·002	29·840	29·688	29·227	81·2	72·2	96·3	−0·5	73·2	+0·7	85·3	+0·1	20·1	110·0	57·4
	Bellary	1,476	28·431	+·001	29·830	28·634	28·186	78·8	69·1	94·4	+1·1	71·4	+0·5	82·9	+0·8	22·9	107·3	54·5
	Kurnool	923	28·973	+·004	29·840	29·191	28·728	77·4	70·5	95·3	+1·4	72·0	+1·8	84·0	+1·6	22·8	112·0	52·5
33	Nellore	66	29·820	−·008	29·821	30·065	29·550	81·1	75·4	93·4	−0·6	75·8	+0·7	84·6	+0·1	17·6	109·8	64·2
	Masulipatam	15	29·875	−·006	29·825	30·139	29·557	80·8	74·8	91·3	+0·8	74·7	+0·2	83·0	+0·5	16·7	111·9	62·9
	Cocanada	26	29·861	+·002	29·824	30·115	29·610	80·0	75·1	90·1	+0·6	75·6	+0·6	82·8	+0·6	14·4	105·6	66·6
	Vizagapatam	38	29·828	−·004	29·806	30·114	29·421	81·3	74·7	88·1	+3·0	77·1	−0·6	82·6	+2·2	11·0	102·0	63·5
	Calingapatam	19	29·841	...	29·798	30·137	29·411	79·1	74·7	89·8	...	73·9	...	81·8	...	15·8	104·1	56·7
	Gopalpur	56	29·796	−·002	29·793	30·129	29·330	77·9	74·1	87·1	+1·1	73·5	+0·4	80·3	+0·7	13·6	100·0	58·6
	Bay Stations.																	
1	P. V. Fraser	9	29·815		29·783	30·146	29·216	81·0	78·5	...	...	...	...	...	...	...	...	...
	Port Blair	58	29·829	−·025	29·817	29·997	29·622	80·3	76·4	86·1	−1·3	76·8	−0·4	81·3	−0·7	9·6	94·6	70·1
	Table Island	90	29·799	−·016	29·824	29·987	29·504	80·7	76·9	84·9	−0·8	77·6	+0·5	81·3	−0·1	7·3	92·0	70·3
	Kashmir.																	
13	Muzaffarabad	...	27·472	...	...	27·803	26·973	62·0	54·7	80·7	...	55·3	...	68·0	...	25·5	100·2	31·3
	Srinagar	5,204	24·865	−·032	24·858	25·274	24·481	50·1	45·8*	64·3	+1·8	43·4	−1·7	53·4	−1·7	21·0	94·8	8·7
	Gulmarg†	8,660	21·795	−·013	21·763	21·945	21·637	60·4	53·8	68·4	+1·7	48·3	−0·7	57·3	+0·5	22·1	82·0	38·4
	Dras	10,039	20·809	+·014	20·777	21·169	20·308	30·7	48·7†	46·6	−4·4	22·4	+1·1	34·5	−1·7	24·2	56·6	−35·8

N. B.—Elevations in italics indicate barometrical determinations.

NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 9 months.

† " " 4 "

B—contd.

stations in India, etc., in the year 1920.

Wind Direction. Number of winds from									Wind Velocity.			Hygrometer, 8 hrs.				Cloud.		Rainfall.					Station.
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Mean cloud amount at 8 hrs of year.	Departure from normal of year.	Number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
																								XIV.—Mysore.
59	1	5	45	43	6	82	104	41	5·1	5·9	−0·8	67	−3	·550	−·020	4·3	−0·5	29	−18·4	18·38	24·52	−6·14	3·10	Chitaldrug.
68	2	13	32	18	1	32	120	30	5·1	2·6	+2·5	80	+3	·694	+·015	5·3	−0·3	74	+ 7·6	29·12	35·39	−7·27	1·75	Hassan.
28	1	32	67	25	19	56	128	10	6·0	4·6	+1·4	77	+1	·674	−·007	5·7	+0·6	47	−11·3	26·00	35·10	−9·10	1·83	Bangalore.
55	13	40	38	11	24	99	81	5	5·4	7·3	−1·9	74	−3	·596	−·012	4·7	−1·2	50	− 5·5	27·68	31·21	−3·63	3·27	Mysore.
																								XV.—Madras.
23	41	28	180	17	9	7	34	27	4·7	2·1	+2·6	78	+1	·783	+·010	4·7	−0·5	115	− 0·9	121·33	126·43	−5·10	5·50	Mangalore.
130	37	29	83	29	5	9	13	41	4·1	6·3	−2·2	87	+4	·833	+·025	5·5	+0·6	113	−0·6	139·80	117·29	+22·51	8·10	Calicut.
157	4	70	85	12	4	4	17	13	3·8	4·0	−0·2	79*	−2	·804	−·065	4·7	−0·3	130	+ 1·3	128·33	114·60	+13·73	4·78	Cochin.
92	36	67	11	5	1	2	28	129	4·0	4·4	−0·4	87	+5	·813	+·023	6·3	+0·8	107	+12·8	94·01	64·16	+29·85	5·34	Trivandrum.
21	59	57	35	11	66	69	31	17	7·8	7·5	+0·3	80	0	·856	−·013	3·2	−0·3	53	+7·3	47·66	36·84	+10·82	3·10	Pambau.
27	65	52	24	4	4	8	24	98	4·1	3·1	+1·0	73	+2	·755	+·007	6·5	+2·2†	64	+15·4	41·91	33·63	+8·28	2·72	Madura.
99	77	53	7	2	8	15	60	45	3·7	...	...	72	+2	·737	−·017	4·8	−1·1	65	+10·8	53·85	35·35	+17·48	6·35	Pudukkottai.
35	12	21	22	15	6	66	116	73	6·4	5·0	+1·4	77	+2	·802	−·006	4·7	−0·4	68	+9·2	34·07	54·15	+20·92	7·60	Negapatam.
43	36	68	6	2	10	79	102	20	3·7	4·2	−0·5	73	+1	·763	+·021	4·7	+0·1	60	+13·6	51·36	32·66	+18·70	6·25	Trichinopoly.
120	12	62	37	1	14	87	30	3	3·8	3·1	+0·7	76	−7	·697	−·035	3·5	−1·4	40	+4·7	20·94	22·20	−1·26	1·34	Coimbatore.
117	7	64	16	0	29	108	16	8	3·4	3·1	+0·3	76	−1	·707	−·038	4·2	−0·3	69	+5·4	39·11	39·43	−0·32	2·22	Salem. (a)
82	29	9	0	6	7	137	31	65	5·2	1·8	+3·4	78	−3	·805	−·034	5·0	+0·7	57	+0·4	77·55	52·68	+24·87	8·66	Cuddalore.
249	0	0	2	1	2	0	48	64	2·6	...	...	77	+2	·734	+·016	3·3	−0·6	51	−5·0	32·05	42 50	−10·45	2·28	Vellore.
143	17	9	1	0	30	103	48	15	3·0	5·0	−2·0	75	−2	·799	−·012	4·7	−0·2	54	−3·2	45·31	49·85	+15·46	5·[illegible]	Madras.
78	21	14	20	57	20	30	76	50	...	...	...	67	0	·706	−·003	4·5	+0·2	49	+3·5	30·58	31·03	−0·45	3·23	Cuddapah.
62	16	10	25	35	77	30	95	69	4·7	4·8	−0·1	60	−1	·592	+·023	3·9	−0·7	24	−10·8	17·41	20·13	−2·72	2·79	Bellary. (b)
201	1	4	2	4	3	39	77	35	3·2	...	...	70	+2	·606	+·028	2·7	−1·1	27	+20·0	11·05	26·08	−15·03	1·02	Kurnool.
71	20	9	7	28	58	25	71	77	2·9	4·9	−2·0	77	+1	·809	+·012	5·1	−0·7	43	+ 0·3	51·86	36·26	+15·60	7·10	Nellore.
18	54	63	9	17	48	25	67	65	5·3	4·8	+0·5	78	−4	·814	−·043	4·6	−0·4	49	−4·5	29·23	40·21	−10 98	2·00	Masulipatam.
129	32	50	3	5	5	29	88	25	5·5	5·8	−0·3	79	+2	·818	+ 028	5·6	+1·0	49	− 3·5	36·43	38·33	−1·90	5·10	Cocanada.
35	18	31	3	3	4	29	132	112	7·4	...	...	72	0	·780	+·033	5·8	+0·7	37	−13·3	31·33	37·25	−5·92	2·22	Vizagapatam.
29	40	15	4	1	12	72	98	86	5·8	...	...	81	...	·817	...	3·3	...	51	+1·3	33·59	44·30	−10·71	2·49	Calingapatam.
10	165	20	5	5	51	88	10	12	7·3	8·6	−1·3	81*	0	·805	+·022	3·8	+1·4	43	−13·5	25·79	45·30	−19·51	2·14	Gopalpur.
																								Bay Stations.
36	36	41	16	10	31	149	33	15	...	...	...	81	...	·862	...	4·5	...	44	+10·2	29·31	38·76	−9·45	2·55	P. V. Fraser.
16	37	44	31	19	24	61	41	93	6·8	5·5	+1·3	83	−2	·856	−·032	5·7	−0·3	137	− 2·2	115·83	117·07	− 1·24	3·28	Port Blair.
15	52	42	33	11	19	66	63	43	11·1	...	...	84	+2	·881	+·018	5·4	−1·5	93	−1·3	76·68	78·41	− 1·73	6·95	Table Island. (c)
																								Kashmir.
254	1	8	4	7	12	71	9	0	1·6	...	...	63	...	·372	...	3·8	...	65	−13·1	48·73	53·25	− 3·53	5·02	Muzaffarabad.
152	20	13	17	62	31	23	13	35	2·2	2·6	−0·4	75*	− 9*	·375*	−·035*	5·1	+0·6	58	− 1·2	24·19	26·47	−2·28	2·76	Srinagar.
41	13	24	11	18	1	2	3	9	3·1	...	...	87	−11	·354	−·043	3·7	−0·1	24	−8·7	7·78	15·16	−7·38	0·71	Gulmarg.
250	9	15	2	7	4	13	40	21	3·1	...	...	67†	+3†	·290†	−·009†	5·3	+1·2	65	+9·2	35·37	21·22	+14·15	2·20	Dras.

* Mean of 9 months.
† „ „ 4 „

(a) Wind observations of 365 days.
(b) „ „ of 360 „
(c) „ „ of 343 „

TABLE

(2) *Abstract of observations taken at 8 hrs. at 213*

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches.					Temperature of air.									
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of year.	Lowest pressure of year.	Mean of 8 hrs. dry bulb of year.	Mean of 8 hrs. wet bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	Kashmir—*concld.*																	
	Leh	*11,503*	19·696	—·008	19·665	19·978	19·165	36·9	43·7*	53·3	—2·1	29·5	—0·1	41·5	—1·1	23·8	80·5	—4·0
	Skardu	7,506	22·359	—·017	22·328	23·364	22·405	45·1	47·65	60·6	—1·7	30·5	—0·9	50·2	—1·3	21·1	99·2	—2·7
	Gilgit	4,890	25·159	+·029	25·131	25·655	24·618	56·6	51·6†	71·9	—0·7	50·4	—2·2	61·1	—1·5	21·5	106·8	26·2
	Baluchistan.																	
15	Fort Sandeman	4,614	25·361	...	25·330	25·651	25·037	58·4	49·5	80·7	...	53·9	...	66·8	...	27·9	110·1	17·6
	Quetta	5,502	24·624	—·004	24·584	24·914	24·336	49·2	49·21	74·1	+0·5	43·1	—1·2	58·7	—0·3	31·1	105·9	10·7
	Chaman	4,311	25·645	—·034	25·605	26·008	25·314	50·5	52·4†	77·9	+0·4	52·1	—1·7	65·1	—0·7	25·8	110·8	10·5
	Kalat	6,630	23·709	...	23·671	23·953	23·490	46·5	46·1‡	71·8	—1·9	43·8†	...	58·5†	...	29·0†	100·1	5·1
	Dalbandin	2,272	27·087	...	27·055	27·496	26·629	50·6	50·0†	86·5	...	53·5	...	70·0	...	33·0	118·5	13·4
	Pasni	...	29·863	...	29·823	30·216	29·347	72·9	67·3	86·7	...	61·8	...	75·2	...	26·9	114·3	31·3
	Panjgur	3,177	26·707	...	26·665	27·080	26·351	61·5	59·8†	84·9	...	56·6	...	70·7	...	29·3	111·6	23·4
	Seistan	...	28·152	...	...	28·600	27·690	59·4	54·4‡	80·3	...	51·4‡	...	64·8‡	...	26·8‡	110·8	15·9
	Hill stations, excluding Kashmir and Baluchistan.																	
	Parachinar	6,000	24·410	—·011	24·386	24·866	24·121	58·8	49·6†	70·4	+0·3	47·0	—1·0	58·7	—0·3	23·5	99·0	14·5
	Cherat	*4,866*	25·676	+·003	25·644	25·960	25·333	62·0	51·3	72·2	—0·8	56·9	+0·3	64·6	—0·3	15·3	104·0	24·0
	Droch (*c*)	4,500	25·049	...	...	25·425	24·625	54·4	48·4†	70·0	—2·9	51·1	—0·5	60·6	—1·7	19·0	103·1	22·6
	Murree	6,333	23·951	—·027	23·919	24·210	23·657	55·7	48·0	63·9	—1·2	51·3	+1·1	57·6	—0·1	12·7	80·2	17·8
	Simla	7,232	23·993	+·009	23·955	23·329	22·817	54·1	46·1	66·5	—0·4	49·8	+0·1	58·2	—0·1	16·7	77·3	18·2
	Chakrata	6,922	23·354		23·308	23·618	23·037	56·6	46·8	66·7	+2·5	50·3	+0·6	58·5	+1·5	16·5	86·7	21·1
	Mukteswar	7,592	22·838	+·003	22·797	23·058	22·600	53·2	46·2	64·2	+0·1	46·2	—2·3	55·2	—1·0	18·0	81·7	21·2
	Darjiling	7,432	22·937	—·007	22·892	23·191	23·541	52·2	49·9	60·8	+2·0	46·2	+0·3	53·4	+1·4	12·8	76·5	27·4
	Kalimpong§	...	25·933		25·887	26·232	25·659	64·5	63·1	73·1		61·2		67·1		12·0	83·6	41·4
	Shillong	4,920	25·117	+·002	25·089	25·375	24·831	60·8	56·0	69·9	—0·2	53·8	+0·5	61·8	+0·1	16·2	80·9	30·7
	Cherrapunji	4,309	25·875	0	25·836	25·899	25·346	62·9	58·9	69·0	+0·5	57·7	+0·5	63·3	+0·5	11·3	81·9	36·3
	Netarhat		26·064‖		26·013‖	26·187	25·911	70·0	61·3	79·0		59·0		69·0		20·0	98·8	33·8
	Maymyo	3,546	26·404	—·021	26·348	26·647	26·195	62·3	60·0	76·8	—0·3	57·2	+1·2	67·0	+0·5	19·6	89·8	34·6
	Pachmarhi	3,438	26·429	—·005	26·376	26·657	26·104	68·6	59·8	81·4	+1·6	60·8	—0·2	71·1	+0·7	20·6	101·0	38·1
	Mount Abu	3,945	26·034	+·007	25·984	26·276	25·712	68·3	56·7	75·8	—0·1	62·4	+0·4	69·1	+0·1	13·5	94·6	36·2
	Mercara	3,781	26·226	—·007	26·160	26·355	26·062	65·3	63·1	76·4	—0·2	60·2	—1·1	68·3	—0·7	16·2	89·0	50·9
	Ootacamund	7,327	23·165	+·015	23·011	23·174	23·918	67·9	42·4	65·9	+0·4	49·2	0	57·6‖	+0·2	16·7	75·8	35·6
	Kodaikanal	7,668	22·831	—·002	22·765	22·920	22·096	57·4	51·4	65·6	+1·0	50·6	—0·5	58·1	+0·3	15·1	75·5	39·6
	Extra India.																	
	Singapore (*a*)	10	29·845	—·089	29·777	29·959	29·566	83·5	...	88·7	+0·9	74·7	+0·9	81·7	+0·9	14·0	94·5	70·5
	Penang (*b*)	17	29·833	—·082	29·775	30·051	29·640	81·0	...	89·1	—0·3	73·1	—1·7	80·6	—1·0	16·9	95·0	68·0
	Trincomalee	99	29·815	+·009	29·843	29·988	29·600	78·0	74·2	90·6	+2·0‖	76·1	—0·2	83·4	+0·9‖	14·5	98·5	67·0

N. B.—Elevations in italics indicate barometrical determinations.
No=e.—The barometric readings are not reduced to sea-level, in the case of hill or plateau-stations, the elevations of which exceed 3,700 feet.
(*c*) Aneroid. (*a*) 9 hrs. observations.

* Mean of 5 months,
† " 11 "
‡ " 9 "
§ " 7 "
‖ " 6 "

B—contd.

stations in India, etc., in the year 1920.

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Wind velocity. Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Hygrometry, 8 hrs. Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Cloud. Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Rainfall. Number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	Station.
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
																								Kashmir—*contd.*
316	4	16	4	2	22	0	2	0	1·4	1·5	−0·1	48*	− 2*	·194*	−·014*	4·5	−0·3	7	+2·7	1·98	3·21	− 1·23	0·86	Leh.
172	0	19	30	10	24	59	42	10	4·5	...	...	47‡	− 9‡	·127‡	−·064‡	4·8	0	21	+1·2	6·55	7·66	− 1·11	0·54	Skardu.
323	0	0	0	0	1	35	1	6	0·4	...	...	57‖	+ 9‖	·318‖	+·045‖	6·4	+0·5	23	+7·6	5·74	4·91	+ 0·83	0·55	Gilgit.
																								Baluchistan.
245	9	16	14	10	20	24	21	5	3·5‖	...	...	43‖	...	·278‖	...	1·8	...	24	− 1·6	8·32	10·43	− 2·11	1·13	Fort Sandeman. (*a*)
298	7	6	5	19	18	3	5	5	2·1	2·1	0	59§	+ 8§	·293§	−·027§	2·0	+0·1	19	− 5·5	5·11	10·02	− 4·91	0·73	Quetta.
151	2	5	46	61	67	39	2	6	3·3	5·9	−2·6	47‡	+ 3‡	·277‡	+·010‡	2·4	+0·5	17	− 2·2	6·54	7·12	− 0·58	1·05	Chaman.
278	5	1	3	2	30	27	2	11	4·3	...	...	54§	+ 7§	·233§	−·030§	1·7	...	14	− 4·6	3·77	6·96	− 3·19	0·46	Kalat.
173	13	66	19	15	8	31	31	10	4·4	...	...	39‖	...	·207‖	...	2·2	...	7	− 2·7	3·25	3·77	− 0·52	0·91	Dalbandin.
103	33	15	25	13	5	11	68	103	5·4	...	...	76	...	·656	...	2·7	...	5	− 4·7	4·38	7·89	− 3·51	3·56	Pasni.
114	20	103	64	3	12	19	9	16	5·0	...	...	51‖	...	·320‖	...	1·2	...	5	...	2·57	...	...	1·28	Panjgur. (*b*)
88	23	4	7	1	1	3	2	237	9·7	...	...	60‖	...	·357‖	...	1·5	...	5	...	1·00	...	...	0·24	Seistan.
																								Hill stations, excluding Kashmir and Baluchistan.
365	0	0	0	0	0	1	0	0	0·5	...	...	51‖	− 4	·278‖	+·001	2·5	−0·9	61	− 3·6	25·86	29·09	− 3·23	1·61	Parachinar.
134	136	10	1	4	17	5	1	27	5·2	8·3	−3·0	46	− 7	·232	−·034	1·5	−1·5	32	−10·0	20·17	28·00	− 7·83	2·61	Cherat. (*c*)
309	0	11	35	7	0	3	0	1	2·8	...	...	56‖	− 4	·267‖	−·030	2·9	0	50	+ 9·7	16·93	16·76	+ 0·17	1·90	Drosh.
205	13	16	23	53	37	4	4	11	4·0	5·3	−1·3	54	− 2	·266	−·003	3·3	+0·2	60	−17·1	35·13	59·00	−23·87	1·72	Murree.
...	...	...	...	...	...	...	...	...	...	...	...	62	− 5	·241	−·015	4·2	+0·1	89	+ 3·0	63·61	63·07	+ 0·54	5·45	Simla.
47	10	122	118	19	5	18	21	6	7·4	4·6	+2·8	57	− 7	·279	−·009	3·5	+0·2	76	−12·8	39·79	73·01	−33·22	3·06	Chakrata.
67	9	20	62	17	6	7	171	7	6·4	...	...	55	− 6	·246	−·026	3·9	−0·2	68	−12·3	45·06	52·34	− 7·28	4·31	Mukteswar.
259	6	20	12	14	2	22	25	6	2·3	3·5	−1·2	85	0	·391	+·038	6·7	+0·9	126	+ 8·6	107·17	125·44	−18·27	6·16	Darjiling.
...	...	...	...	...	...	...	...	...	...	...	...	88	...	·545	...	5·4	...	?	...	?	...	...	?	Kalimpong.
254	0	3	20	12	29	40	3	0	2·2	...	...	74	0	·410	−·002	4·6	+0·3	121	− 3·5	68·05	86·05	−18·00	2·68	Shillong.
158	6	45	27	19	31	54	22	4	3·6‖	...	...	79	− 2	·466	−·003	5·4	0	159	− 1·2	369·73	424·02	−54·29	16·05	Cherrapunji.
0	27	31	15	17	17	63	35	36	5·6	...	...	63	...	·457	...	2·7	...	68	...	55·06	...	...	3·85	Netarhat.
261	0	3	4	0	7	78	13	0	1·1	...	...	88	+ 4	·502	−·032	5·0	+0·7	62	−29·6	41·62	60·20	−18·58	3·46	Maymyo.
69	10	16	24	26	12	38	99	72	4·4	4·3	+0·1	62	+ 2	·431	+·001	2·7	−1·0	63	−14·7	56·55	75·75	−19·20	9·50	Pachmarhi.
90	27	31	4	14	9	123	38	30	4·9	5·7	−0·8	51	− 3	·350	−·017	3·3	0	54	+ 1·2	40·48	58·19	−17·71	3·86	Mount Abu.
75	16	56	53	3	7	31	73	52	3·9	4·3	−0·4	68	+ 3	·551	+·009	5·9	−0·4	133	+ 1·3	142·64	126·47	+16·17	4·94	Mercara.
61	7	12	67	62	20	17	54	36	3·9	...	...	72	+ 4	·342	+·018	5·8	+0·8	113	+ 5·6	49·58	56·46	− 6·88	2·29	Ootacamund.
2	72	62	43	33	12	4	80	53	6·5	...	...	69	0	·321	−·001	4·3	+0·3	109	+ 1·4	65·46	62·19	+ 3·27	3·63	Kodaikanal.
																								Extra India.
103	19	79	6	38	14	55	4	48	...	...	...	...	...	...	...	6·6	...	116	−15·1	89·11	96·13	− 7·02	4·61	Singapore.
0	92	8·6	3	43	6	1	0	17	...	...	...	...	...	...	...	5·5‖	...	114	−15·1	78·10	102·63	−24·53	4·29	Penang.
23	13	27	19	4	9	102	76	3	6·4	7·3	−0·9	83	− 1	·794	−·055	6·5	+3·2	65	− 7·8	47·34	62·15	−14·81	4·21	Trincomalee.

* Mean of 5 months.
‡ ,, ,, 7 ,,
§ ,, ,, 9 ,,
‖ ,, ,, 11 ,,

(*a*) Wind observations of 364 days.
(*b*) ,, ,, ,, 365 ,,
(*c*) ,, ,, ,, 335 ,,

TABLE

(2) *Abstract of observations taken at 8 hrs. at 213*

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.					Temperature of air.									
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of year.	Lowest pressure of year.	Mean of 8 hrs. dry bulb of year.	Mean of 8 hrs. wet bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	Extra India—*concld.*																	
	Colombo	24	29·912	—·005	29·863	30·026	29·752	76·1	74·0	86·2	—1·0	74·8	—0·7	80·5	—0·9	11·3	93·0	63·2
	Hambantota	64	29·857	...	29·847	29·989	29·712	76·1	73·3	86·9	...	75·0	...	80·9	...	11·9	95·5	67·3
	Minicoy	7	29·980	+·023	...	30·072	29·822	...	...	...	...	...	...	...	...	...	...	...
	Amini Divi	13	29·920	—·009	29·861	30·068	29·715	83·0	76·9	88·5	+1·6	76·9	—0·1	82·7	+0·7	11·7	96·4	67·9
	Gangtok	5,760	24·256	—·109	24·211	24·522	24·002	58·7	53·9	67·5	—0·7	52·7	+7·9	60·6	+3·6	13·9	81·6	33·2
	Kashgar (c)	4,255	25·509	—·111	...	26·320	25·042	49·7	53·1‡	65·2	—1·4	43·3	—0·6	53·8	—1·0	22·9	99·8	2·8
	Meshed	3,104	...	...	...	...	...	47·9	50·6‡	67·8	—0·8	41·0	—3·5	54·5	—2·1	26·8	98·4	2·5
	Jask	13	29·846	—·014	29·812	30·271	29·324	76·7	70·6	88·1	+1·7	70·2	—3·3	79·1	—0·8	17·8	113·5	45·8
	Muscat	20	29·871	+·014	29·839	30·276	29·391	81·0	72·5	88·9	+3·8	77·7	—0·7	83·4	+1·5	11·2	112·2	56·1
	Bushire	14	29·857	—·010	29·833	30·304	29·408	73·2	67·3	81·6	—0·5	68·8	+0·2	75·2	—0·1	12·7	106·2	39·5
	Busreh	25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ispahan (c)	5,217	24·239	—·141	...	24·580	23·950	51·3	51·2‡	71·2	—2·6	46·5	+0·9	58·8	—0·9	24·7	105·4	7·9
	Tehran (c)	4,002	25·719	—·221	...	26·150	25·450	56·3	54·6‡	69·2	—4·1	49·7	—0·5	59·4	—2·3	19·6	102·6	10·0
	Baghdad	125	29·766	—·025	29·870	30·302	29·283	63·3	53·3	83·9	—2·1	60·4	+0·3	72·1	—0·9	23·5	115·1	24·6
	Aden	94	29·817	—·012	29·844	30·047	29·555	80·3	74·7	87·3	—0·7	73·3	+0·3	83·8	—0·2	9·0	97·7	67·9
	Zanzibar	72	30·004	+·011	30·003	30·178	29·814	78·7	74·6	84·0	+0·2	76·5	+0·1	80·2	+0·1	7·5	91·9	68·6

N.B.—Elevations in italics indicate barometrical determinations. ‡ Mean of 9 months.

Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(c) Aneroid.

B—concld.

stations in India, etc., in the year 1919.

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Wind velocity. Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Hygrometry, 8 hrs. Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Cloud. Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Rainfall. Number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	Station.
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
																								Extra India —*concld.*
178	13	34	8	11	4	32	30	6	3·5	5·8	−2·3	91	+ 9	·811	−·043	6·5	+1·2	131	+20·8	92·07	84·57	+7·50	5·85	Colombo.
28	33	48	0	0	1	63	120	24	8·6	...	...	87	...	·784	...	4·7	...	62	...	30·14	37·34	− 7·20	2·46	Hambantota.
49	64	34	15	9	7	40	64	78	4·5	6·9	−2·4	...	...	...	...	4·6	0	99	+5·5	81·17	62·54	+18·63	4·15	Minicoy.†
17	52	51	6	14	3	30	75	88	8·3	...	...	75	− 2	·843	−·018	5·2	−0·2	76	+0·9	49·11	53·57	−4·46	3·02	Amini Divi.
232	4	15	4	1	6	1	0	7	1·3*	...	...	84	+ 2	·406	−·013	6·3	+2·4	163	− 3·0	131·88	136·43	− 4·55	6·95	Gangtok. ‡§
803	25	11	2	0	2	1	4	18	1·5	2·1	−0·6	67‡	...	·3702	...	5·0	+1·5	20	+11·6	6·61	3·19	+ 3·43	1·08	Kashgar.
331	5	1	1	13	6	0	1	8	1·5	...	...	66‡	+41	·3101	+·021	3·6	+0·7	41	+18·0	15·18	9·18	+ 6·00	0·74	Meshed.
25	56	66	116	22	3	2	23	53	7·6	8·7	−1·1	75	+ 3	·718	−·016	2·2	+0·3	12	+ 3·1	4·45	4·20	+ 0·25	1·26	Jask.
467	6	0	1	69	0	3	5	114	2·7	3·1	−0·4	69	0	·708	−·029	2·6	+0·7	3	−5·8	0·98	4·16	− 3·19	0·46	Muscat. (a)
60	40	60	23	23	4	2	24	121	7·0	5·8	+1·2	75	+ 6	·644	+·025	2·7	+0·6	18	−0·2	14·13	10 85	+ 3·28	2·10	Bushire.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Busrah.
312	4	1	0	5	1	14	20	6	1·6	2·9	−1·3	58‡	− 6	·3061	−·001	1·7	−0·4	17	+ 3·3	5·95	4·64	+ 1·31	1·00	Ispahan. (b)
253	24	30	4	7	17	14	0	4	3·1	2·2	+0·9	54‡	+ 3	·3692	+·046	3·1	+0·6	37	+10·0	14·34	9·30	+ 5·04	1·04	Tehran. (c)
50	53	33	28	15	13	17	94	66	5·2	2·7	+2·5	53	− 5	·290	−·100	3·3	+1·7	16	− 0·3	7·24	6·89	+ 0·35	1·38	Baghdad.
95	26	163	24	19	18	12	1	6	2·8	9·1	−1·3	75	+ 1	·792	−·006	5·2	+1·2	1	− 2·8	0·16	2·10	− 1·94	0·16	Aden.
57	39	46	6	20	97	89	9	3	4·6	4·9	−0·3	81	− 2	·799	−·016	6·4	+0·2	63	−24·3	44·03	61·52	−17·49	5·24	Zanzibar.

* Mean of 10 months.
† Wind observations of 360 days.
‡ Mean of 9 months.
§ Wind observations of 364 days.

(a) Wind observations of 365 days.
(b) Wind observations of 363 days.
(c) Wind observations of 358 days.

Table C.—Abstract of observations taken at 8 hrs. at 60 fourth and fifth class stations in India, etc., in the year 1920.

TABLE

Abstract of observations taken at 8 hrs. at 60 fourth and

Number of sub-division.	Station.	Temperature of air.											Wind direction.								
		Mean of 8 hrs. dry bulb of year.	Mean of 8 hrs. wet bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed year.	Lowest temperature observed during year.	Number of winds from								
													Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.
1	2	3	4	5	6	7	8	9	10	12	13	13	14	15	16	17	18	19	20	21	22
	II.—Assam.																				
4	Bishnath	70·1	67·0	84·2	+0·8	54·6	−6·6	69·4	−2·9	29·6	96·9	33·3	...	...	...	...	...	...	...	...	...
	Borjuli	73·8	69·8	92·1	+7·2	60·3	−3·2	76·2	+2·0	31·9	99·8	41·5	...	...	...	...	...	...	...	...	...
	Chandkhira	69·3	66·6	86·5	+0·2	57·6	+3·1	72·1	+1·7	28·9	110·4	30·9	...	...	...	...	...	...	...	...	...
	Doom Dooma	68·0	65·9	83·9	+3·3	64·0	+1·4	73·5	+2·3	19·1	98·8	40·2	...	...	...	...	...	...	...	...	...
	Dikom	68·2	66·7	83·0	+0·8	64·0	+0·8	73·5	+0·8	19·0	98·8	39·4	...	...	...	...	...	...	...	...	...
	Golaghat	69·7	68·4	82·5	+0·9	62·3	...	72·4	...	20·2	96·1	49·2	...	...	...	...	...	...	...	...	...
	Hailakandi	71·8	69·5	86·2	+0·3	67·5	+1·6	76·9	+0·9	18·6	97·2	45·6	...	...	...	...	...	...	...	...	...
	Jorehat	69·8	67·5	83·0	0	64·6	+0·5	73·8	...	18·4	97·9	41·2	...	...	...	...	...	...	...	...	...
	Lumding	71·3	68·1	85·4	...	62·6	...	74·0	...	22·7	101·9	39·0	...	...	...	...	...	...	...	...	...
	Mesas	76·2	70·7	87·8	−0·4	63·8	+1·3	75·8	+0·5	24·0	99·1	30·8	...	...	...	...	...	...	...	...	...
	Panerihat	66·7	65·8	83·4	+0·3	61·4	+1·1	72·4	...	22·0	96·4	33·3	...	...	...	...	...	...	...	...	...
	III.—Bengal.																				
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	76·5	68·8	89·3	+2·9	64·6	−2·4	76·9	−0·3	24·8	98·4	45·1	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	79·0	73·2	87·1	+0·3	68·0	+1·0	77·5	+0·7	19·0	102·3	48·8	...	...	...	...	...	...	...	...	...
	Pabna(a)	55·2	71·7	88·6	−1·3	67·6	+1·2	78·1	−0·1	21·0	106·6	46·5	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dum Dum (a)	65·5	65·3	84·3	−3·6	62·0	+0·7	73·2	−1·5	22·3	98·9	34·8	...	...	...	...	...	...	...	...	...
	Kalchini	73·9	69·2	84·4	−0·3	62·2	−0·4	73·4	−0·3	22·1	96·6	39·0	...	...	...	...	...	...	...	...	...
	Nagrakata	75·3	69·2	83·4	−1·3	63·9	−0·6	73·6	−1·1	19·5	95·3	41·2	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	*77·3	*71·7	†92·1	...	*71·0	...	†82·2	...	†19·7	113·2	40·8	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																				
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

(a) Mean of 11 months.
* " " 8 "
† " " 7 "

C.

fifth class stations in India, etc., in the year 1920.

Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.						
Mean velocity in miles per hour of year.	Normal of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Departure from normal of year.	Rainfall for the year.	Normal rainfall for the year.	Departure from normal of year.	Heaviest rainfall during year.	Station.
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
															II.—Assam.
...	...	...	84	— 9	·654	—·023	..	...	128	+ 7·5	102·02	94·12	+ 8·80	3·67	Bishnath.
...	...	...	81	— 6	·668	+·015	...	...	116	+ 1·5	68·40	86·98	—17·58	3·56	Borjuli.
...	...	...	88	— 3	·640	—·074	...	...	186	+ 4·4	118·74	110·16	+ 8·58	3·30	Chandkhira.
...	...	...	90	— 3	·640	—·038	...	..	129	— 1·9	91·06	99·99	— 8·93	2·80	Doom Dooma.
...	...	...	89	— 2	·856	+·003	...	...	125	—10·4	96·64	104·58	— 7·94	5·10	Dikom.
...	...	...	93	+ 3	·704	+·009	...	...	95	—16·2	51·71	69·05	—17·34	3·10	Golaghat.
...	...	...	89	— 2	·704	+·012	...	...	145	+ 9·4	121·40	124·34	— 2·94	5·27	Hailakandi.
...	...	...	89	— 1	·671	+·016	...	...	119	—1·4	82·41	83·56	— 1·15	2·97	Jorehat.
...	...	...	86	...	·676	...	...	...	82	+ 2·3	40·80	51·04	—10·24	3·10	Lumding.
...	...	...	75	— 6	·704	+·003	...	...	121	+ 5·7	73·92	82·27	— 8·35	4·10	Mésza.
...	...	...	95	+ 4	·659	+·056	...	...	112	+ 9·0	85·22	82·54	+ 3·68	2·40	Panerihat.
															III.—Bengal.
...	...	...	...	...	...	...	...	...	89	—12·5	107·72	90·97	+16·25	5·90	Comilla.
...	...	...	66	—18	·616	—·141	...	...	67	—15·9	82·86	86·79	— 3·93	5·30	Brahmanbaria.
...	...	...	...	...	...	...	...	...	97	+ 5·1	80·63	70·53	+10·10	4·03	Faridpur.
...	...	...	75	— 7	·705	+·022	...	...	99	+ 9·7	68·95	66·04	+ 2·91	7·48	Goalundo.
...	...	...	83	+ 2	·761	+·020	...	...	82	— 1·5	54·18	59·70	— 5·54	2·95	Pabna.
...	...	...	...	...	...	...	...	...	89	+ 0·5	57·13	64·27	— 7·14	3·42	Sirajganj.
...	...	...	...	...	...	...	...	...	76	+ 3·7	45·02	54·92	— 9·90	3·28	Rampur Boalia.
...	...	...	...	...	...	...	...	...	67	— 0·9	49·37	52·83	— 3·46	5·33	Malda.
...	...	...	...	...	...	...	...	...	83	— 0·1	99·00	80·75	+18·25	8·14	Rangpur.
...	...	...	93	+ 1	·643	—·030	...	...	112	—10·8	122·20	153·08	—30·88	5·88	Dam Dim.
...	...	...	77	— 4	·676	—·035	...	...	139	+19·5	161·75	145·67	+15·08	8·85	Kalchini.
...	...	...	72	— 8	·651	+·001	...	...	121	—11·3	134·73	156·81	—22·08	7·82	Nagrakata.
...	...	...	...	...	...	...	...	...	121	+17·1	215·29	143·51	+71·78	10·04	Cooch Behar.
...	...	...	...	...	...	...	...	...	84	+ 6·4	57·82	57·96	— 0·14	3·60	Krishnagar.
...	...	...	...	...	...	...	...	...	69	— 6·0	53·48	55·11	— 1·63	4·10	Bankura.
...	...	...	75*	...	·735*	...	5·67	...	69	— 4·2	46·26	52·37	— 6·11	3·09	Raniganj (Asansol).
															IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	67	— 7·5	44·86	52·59	— 7·73	3·90	Hazaribagh.
...	...	...	...	...	...	...	...	...	59	—0·9	48·54	49·24	— 0·70	6·24	Bhagalpur.
...	...	...	...	...	...	...	...	...	47	— 9·8	39·84	49·55	— 9·71	7·52	Muzaffarpur.
...	...	...	...	...	...	...	...	...	57	— 1·8	50·23	55·67	— 4·64	5·05	Motihari.
...	...	...	...	...	...	...	...	...	55	+ 2·1	40·87	42·30	— 1·43	3·14	Chapra.
...	...	...	...	...	...	...	...	...	63	+ 8·2	53·03	44·96	+ 8·98	5·09	Arrah.
...	...	...	...	...	...	...	...	...	47	— 6·9	30·81	42·01	—11·20	3·40	Dehri.

* Mean of 8 months.
† „ „ 7 „

TABLE

Abstract of observations taken at 8 hrs. at 60 fourth and

Number of sub-division.	Station.	Temperature of air.											Wind direction.								
		Mean of 8 hrs. dry bulb of year.	Mean of 8 hrs. wet bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Number of winds from								
													Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	V.—United Provinces of Agra and Oudh.																				
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	VI.—Punjab.																				
13	Khanpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																				
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																				
23	Chhindwara	71·6	63·1*	88·1	...	63·6	...	75·9	...	24·5	104·9	42·7	245	8	15	0	1	3	17	29	28
	XIII.—Hyderabad.																				
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																				
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	74·4	72·5	93·2	...	71·2	...	82·6	...	22·7	107·6	54·6	...	...	...	...	...	...	...	...	...
37	Guntur	80·5	74·4	94·7	...	73·6	...	84·6	...	20·1	115·4	60·9	...	...	...	...	...	...	...	...	...
	Koraput	68·5	63·3	83·7	...	62·1	...	72·9	...	21·6	101·0	40·3	...	...	...	...	...	...	...	...	...
	Bay Islands.																				
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																				
13	Jammu	71·4	60·3	85·2	...	65·8	...	75·5	...	19·4	108·5	37·7	37	136	99	44	8	9	5	7	20
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	42·8	44·2†	57·9	...	24·0	...	41·0	...	33·9	97·1	−25·1	83	0	1	4	97	10	93	4	64
	Baluchistan.																				
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																				
	Panighatta	70·0	65·0	83·5	0	64·0	−1·0	73·7	−0·5	19·5	97·1	38·6	...	...	...	...	...	...	...	...	...
	Kurseong	62·5*	61·1*	68·8	+0·2	56·1	−0·6	62·4	+0·1	12·6	82·5	37·9	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dharampur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	62·0	+1·2	40·5	−0·1	51·3	+0·5	21·5	88·6	13·2	122	20	19	47	31	40	45	24	18
	Kailang§	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	75·4	−1·1	38·3	−3·9	56·9	−2·3	37·0	105·0	3·2	...	...	...	...	...	...	...	...	...

* Mean of 11 months.
† " 7 "
§ Rainfall for January and April wanting.

C—contd.

fifth class stations in India, etc., in the year 1920—contd.

Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.						
Mean velocity in miles per hour.	Normal of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Departure from normal of year.	Rainfall for the year.	Normal rainfall for the year.	Departure from normal of year.	Heaviest rainfall during year.	Station.
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
															V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	31	— 7·5	28·12	31·96	— 3·84	5·20	Meerut.
...	...	...	...	...	...	...	...	...	64	— 16·2	70·40	83·66	—13·26	7·18	Dehra Dun.
															VI.—Punjab.
...	...	...	...	...	...	...	...	...	5	...	1·70	...	...	0·75	Khanpur.
															IX.—Rajputana.
...	...	...	...	...	...	...	...	...	30	— 1·8	22·50	22·78	— 0·28	2·41	Udaipur.
															XII.—Central Provinces.
1·3	...	...	57*	...	·477*	...	2·9	...	42	—17·3	31·86	40·71	— 8·85	2·90	Chhindwara.
															XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	19	—27·1	10·76	32·67	—21·91	2·77	Parbhani.
															XV.—Madras.
...	...	...	...	...	...	...	...	...	56	+14·3	41·23	28·56	+12·67	4·31	Tinnevelly.
...	...	...	79	...	·747	...	3·9	...	25	—13·1	13·41	24·06	—10·65	2·27	Anantapur.
...	...	...	76	...	·717	...	4·3†	...	42	—13·4	26·00	33·20	— 7·20	2·50	Guntur.
...	...	...	75	...	·535	...	...	...	66	...	46·68	...	...	5·35	Kottapat.
															Bay Islands.
...	...	...	...	...	...	...	...	...	114	— 6·5	73·80	98·64	—24·75	2·36	Car Nicobar.
															Kashmir.
...	...	...	53	...	·461	...	3·0	...	47	— 7·5	27·14	42·60	—15·46	2·39	Jammu. (a)
...	...	...	...	...	...	...	...	...	108	+ 1·3	78·96	73·55	+ 5·41	4·12	Sonamarg.
...	...	...	39†	...	·273‡	...	4·0	...	30	+ 9·1	10·56	8·23	+ 1·83	1·08	Kargil.
															Baluchistan.
...	...	...	...	...	...	...	...	...	20	— 3·7	10·24	12·25	— 2·01	2·19	Harnai.
															Hill stations, exclusive of Kashmir.
...	...	...	75	+ 4	·573	—·027	...	...	118	— 3·7	111·45	139·57	—28·12	4·80	Panighatta.
...	...	...	92*	+12	·832*	+ ·000	...	...	123	—12·6	118·84	161·92	—43·08	4·30	Kurseong.
...	...	...	...	...	...	...	...	...	181	— 8·6	146·78	168·46	—21·68	3·50	Gnatong.
...	...	...	...	...	...	...	...	...	143	+ 3·1	62·76	65·08	— 2·32	2·00	Lachung.
...	...	...	...	...	...	...	...	...	69	...	51·79	...	...	3·75	Dharampur.
...	...	...	...	...	...	...	...	...	70	— 9·6	70·30	94·30	—23·80	3·75	Mussoorie.
...	...	...	...	...	...	...	3·7	—0·3	39	+ 5·7	15·51	14·10	+ 1·41	1·47	Poo.
...	...	...	...	...	...	...	...	...	38	—11·0	11·97	23·29	—11·32	1·35	Kaliang.
...	...	...	...	...	...	...	1·7†	...	17	— 3·2	4·92	8·83	— 3·91	0·73	Pistin.

* Mean of 11 months.
† " " 10 "
‡ " " 7 "

(a) Wind observations for 365 days.

TABLE

Abstract of observations taken at 8 hrs. at 60 fourth and

Number of sub-division.	Station.	Temperature of air.											Wind direction.								
													Number of winds from								
		Mean of 8 hrs. dry-bulb of year.	Mean of 8 hrs. wet bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Extra India.																				
	Chumbi*	45·1†	40·7‡	56·6	...	37·4	...	47·0	...	19·2	78·0	15·0	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan	77·5	63·2	90·2	...	64·9	...	77·6	...	25·3	119·5	39·0	0	317	7	1	6	94	13	12	13

* Mean of 11 months.
† ,, 10 ,,
‡ ,, 7 ,,

C—concld.

fifth class stations in India, etc., in the year 1920.

Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.						Station.
Mean velocity in miles per hour of year.	Normal of year.	Departure from normal of year.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Mean cloud amount at 8 hrs. of the year.	Departure from normal of year.	Number of rainy days during year.	Departure from normal of year.	Rainfall for the year.	Normal rainfall for the year.	Departure from normal of year.	Heaviest rainfall during year.	
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
															Extra India.
...	...	...	86†	...	·355‡	...	3·7	...	59	−37·1	39·01	34·29	+4·72	5·35	Chumbi.
...	...	...	...	...	...	...	...	...	88	−15·9	69·09	78·89	−9·80	2·75	Pemba.
...	...	...	63	...	·437	...	...	...	16	...	6·78	...	...	1·05	Abadan.*

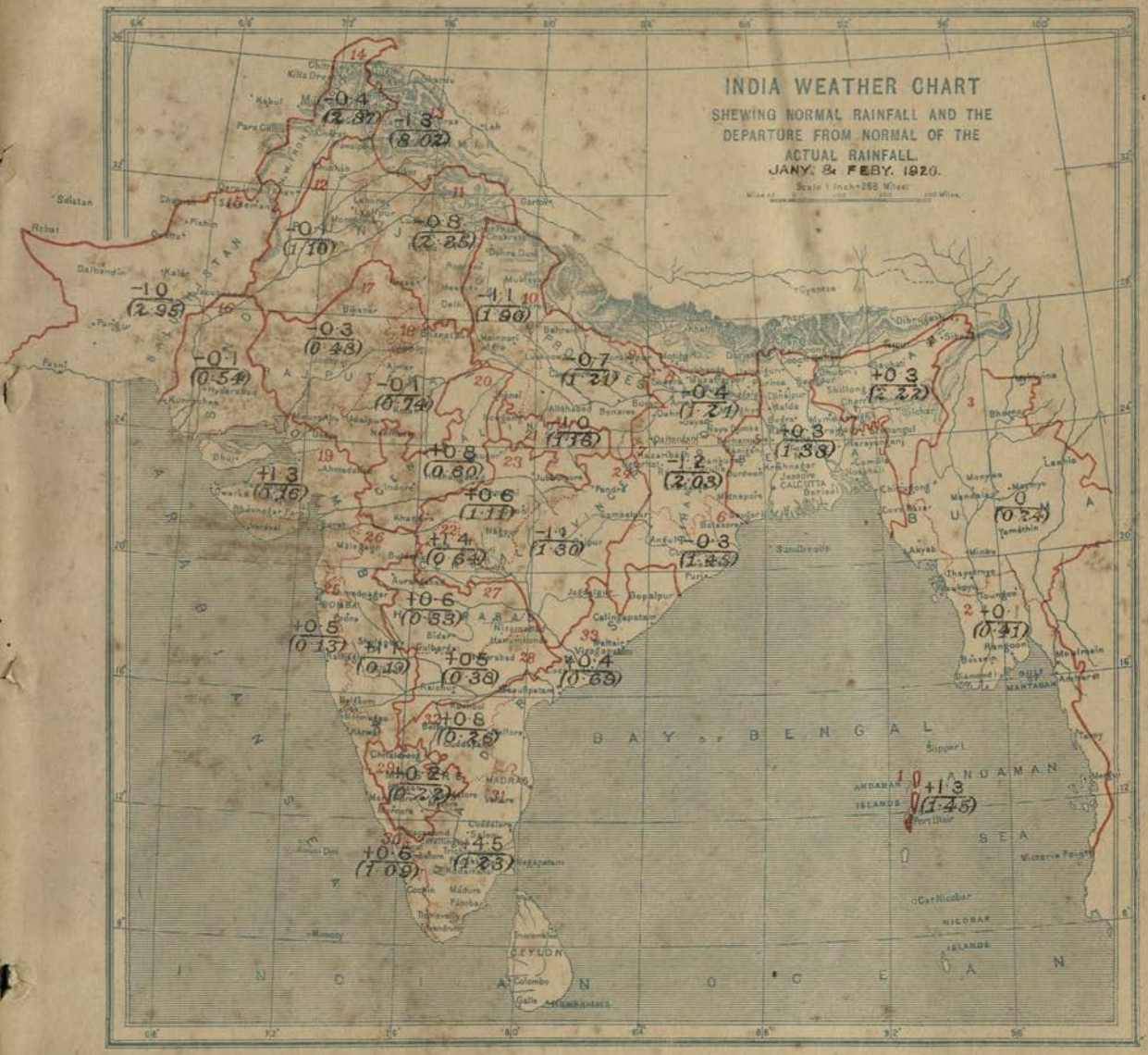
* 5 Winds variable.

† Mean of 7 months.

SGPI-21-IV-5-(23)—11-6-23—353.

The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North



The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal rainfall; the numbers above these give the departures from normal of the average actual rainfall over the divisions.

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16. Sind
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27. Hyderabad, North
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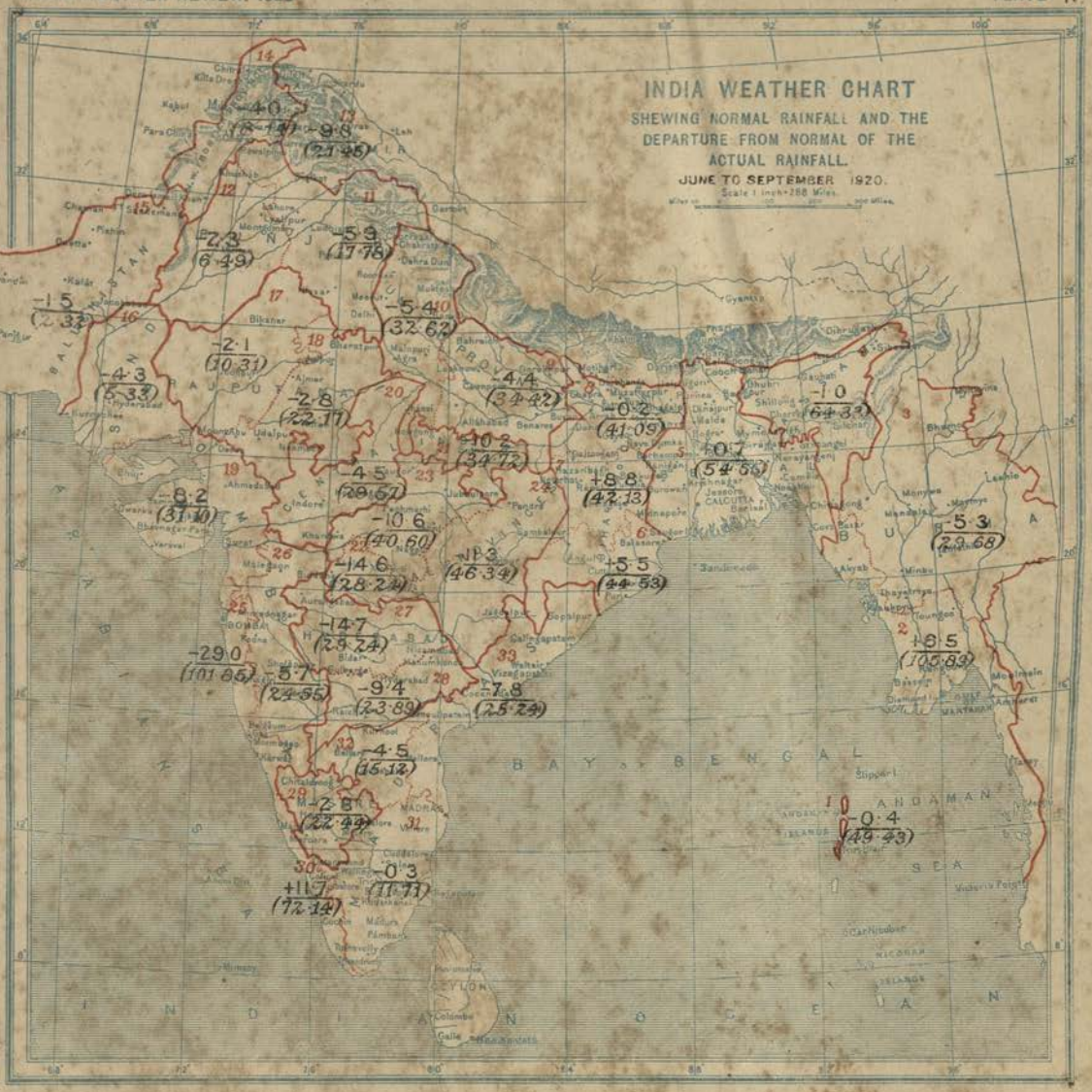

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18. Rajputana, East
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23. Central Provinces, West
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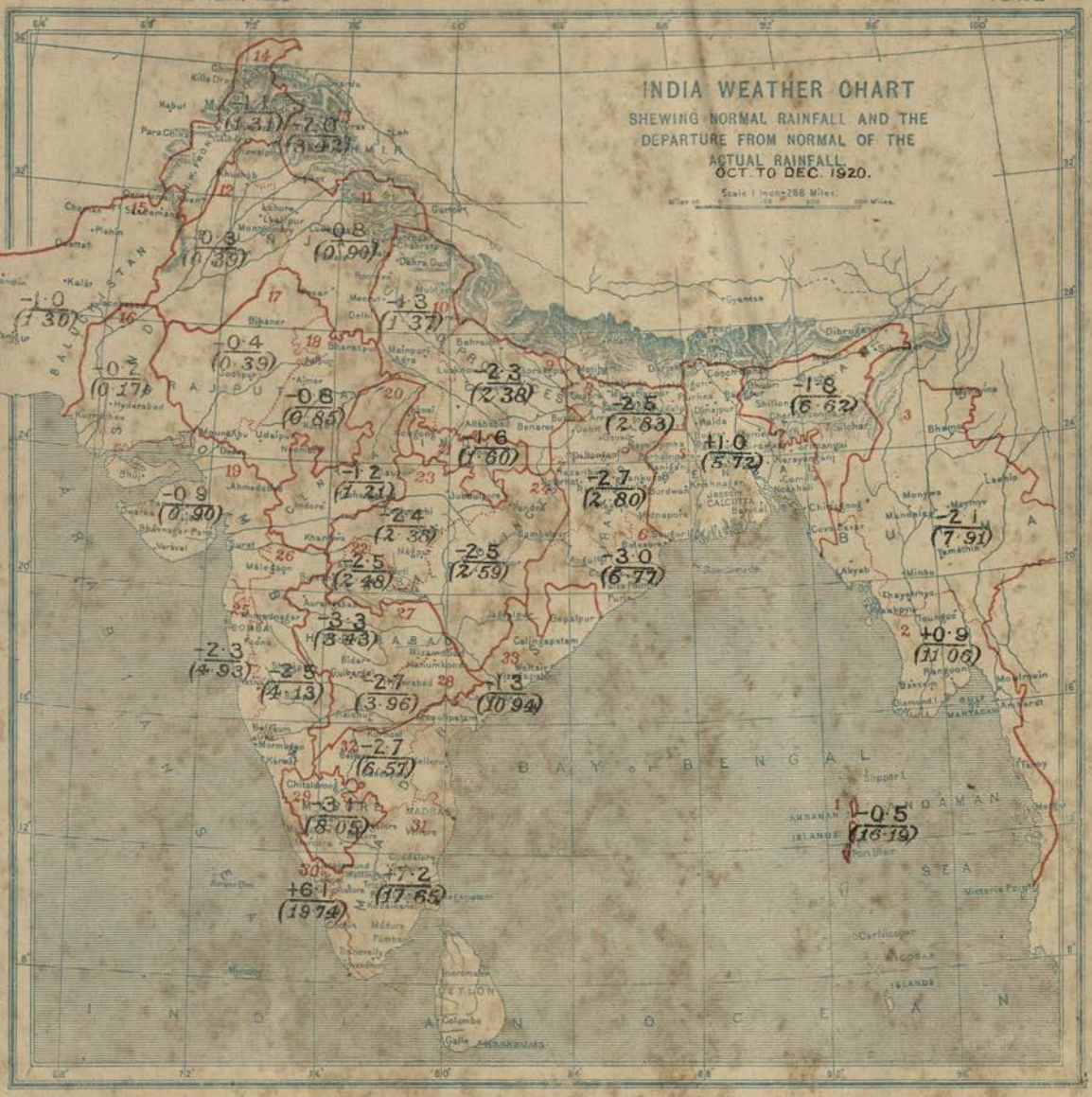

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29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

The track of the storm of the 20th to the 28th November in the Arabian Sea is defined by the following positions which lie outside the boundaries of the map:-

	Lat. N.	Long. E.		Lat. N.	Long. E.
20th November	10½°	66½° ?	25th November	9½°	63¾°
21st "	10½°	64°	26th "	9°	62½°
22nd "	10½°	63°	27th "	8°	60½°
23rd "	10¼°	62°	28th "	10°	58°
24th "	9⅜°	62½°			

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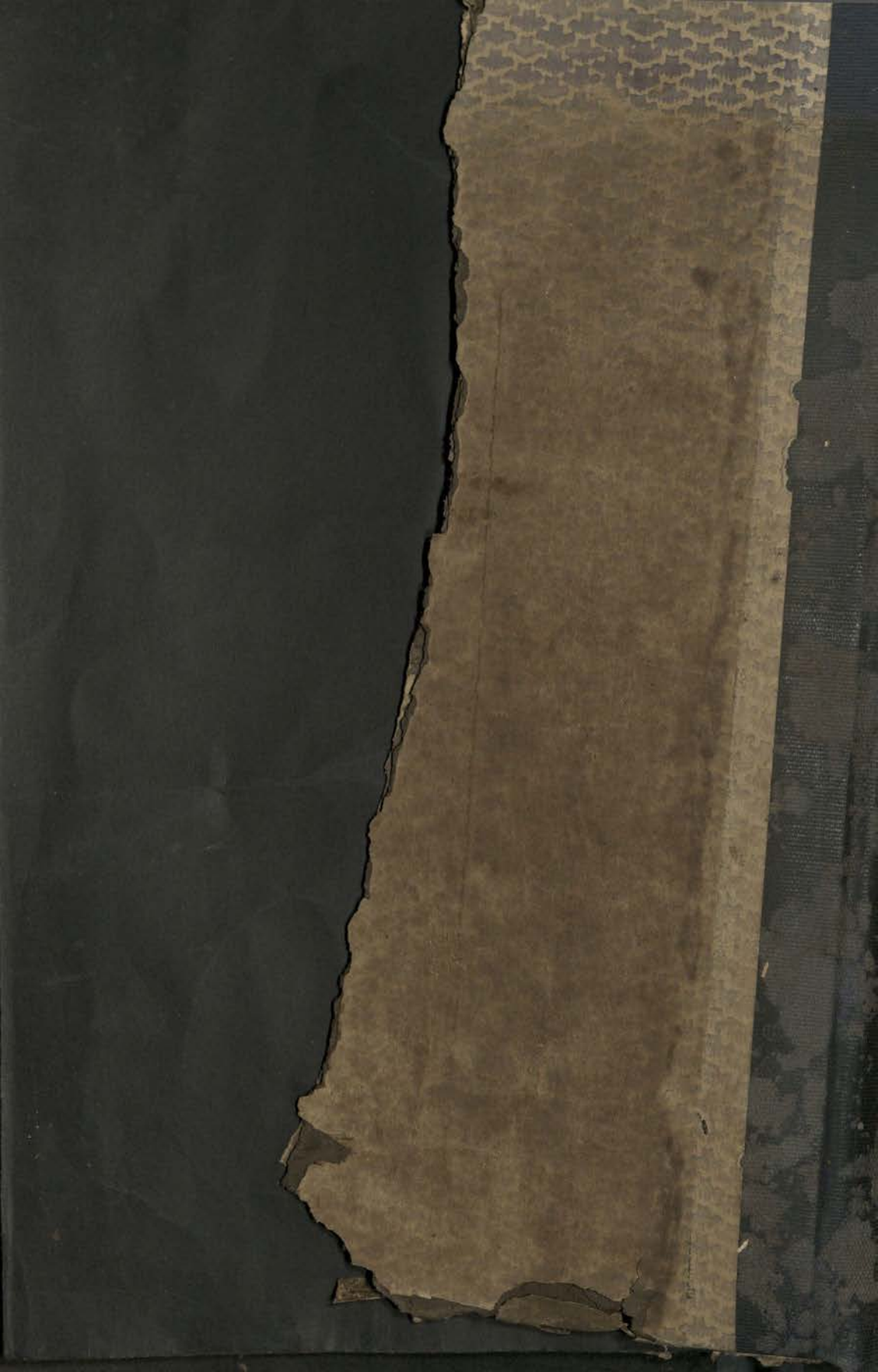
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